

FIG. 1



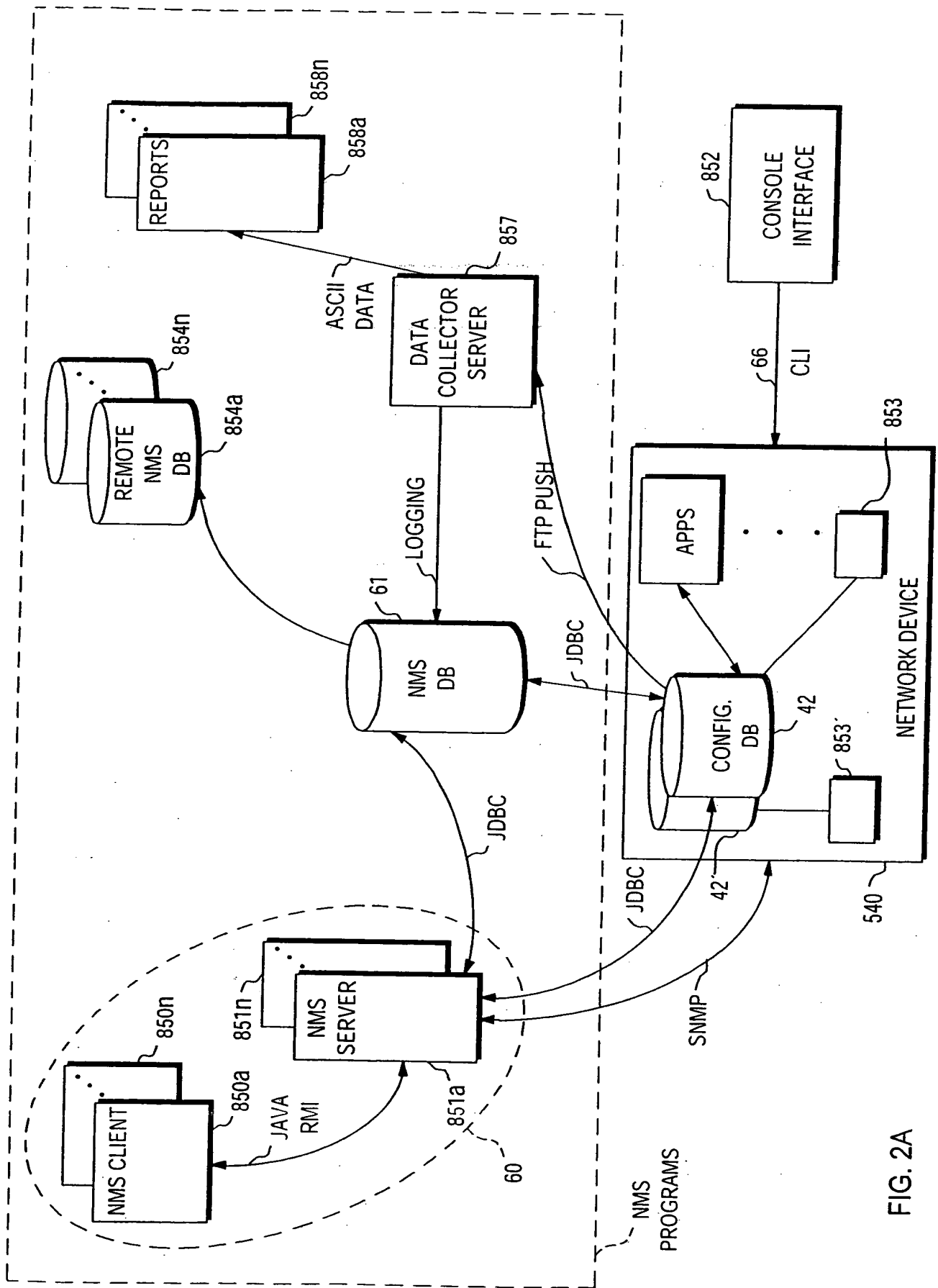
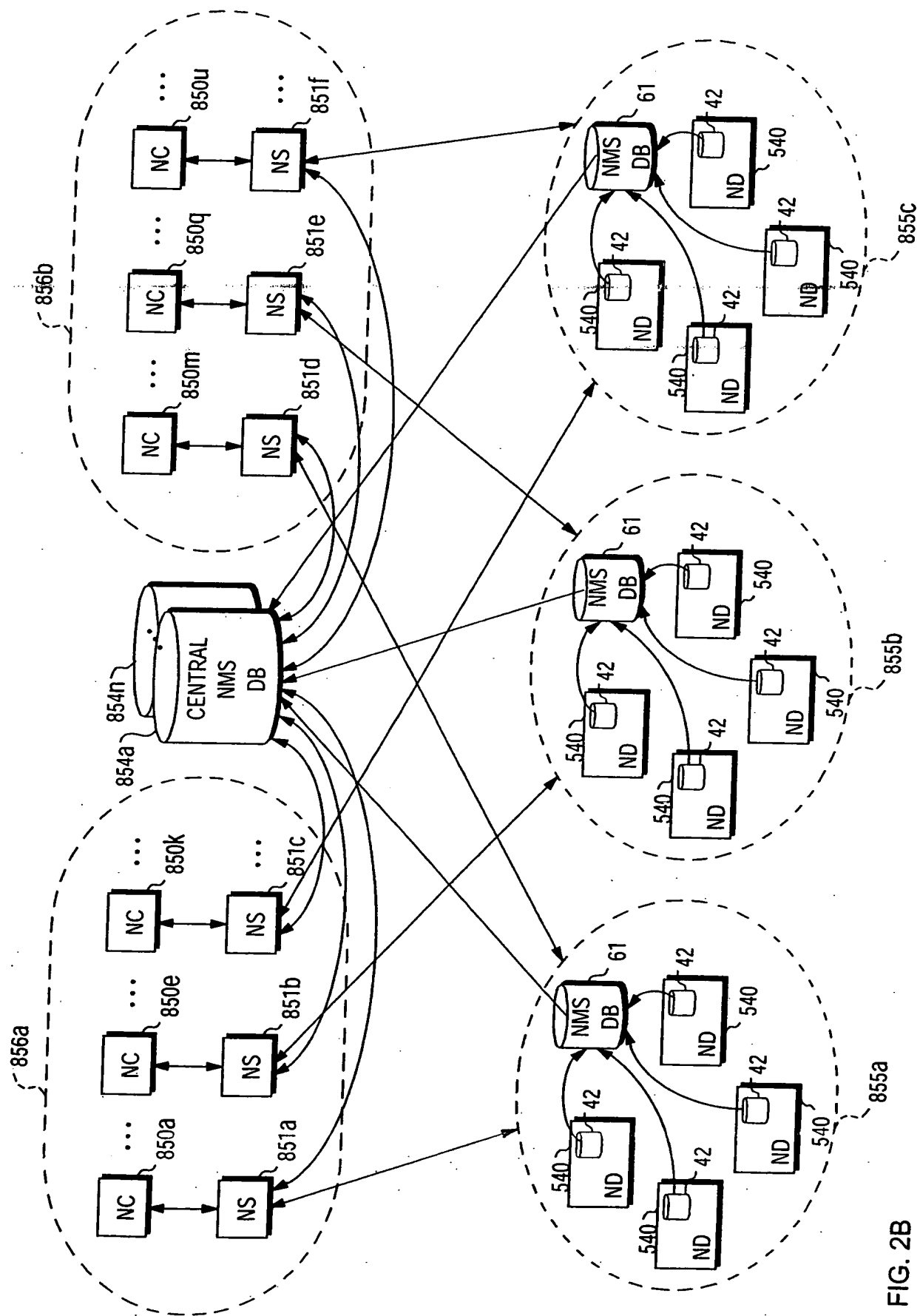


FIG. 2A



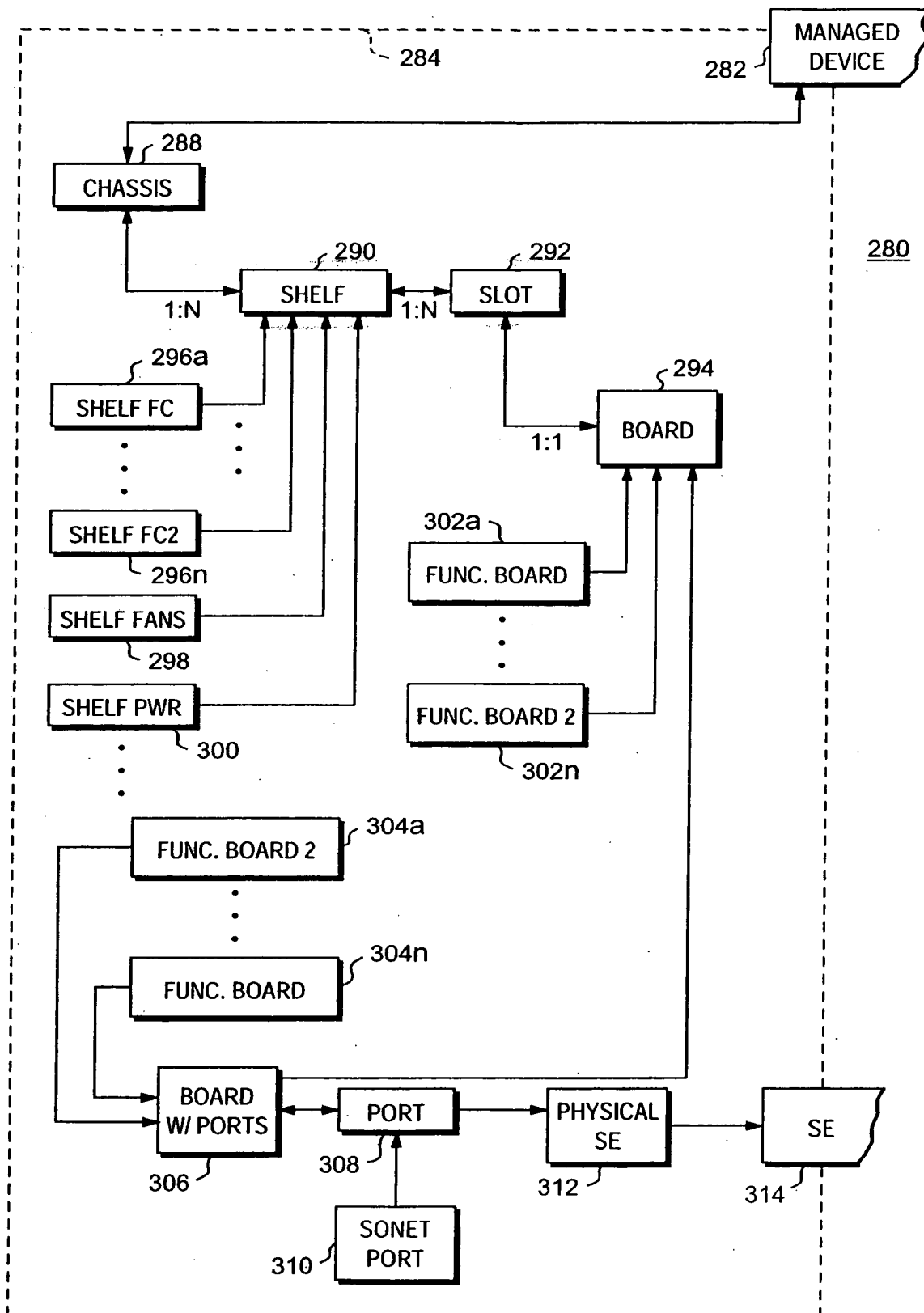


FIG. 3A

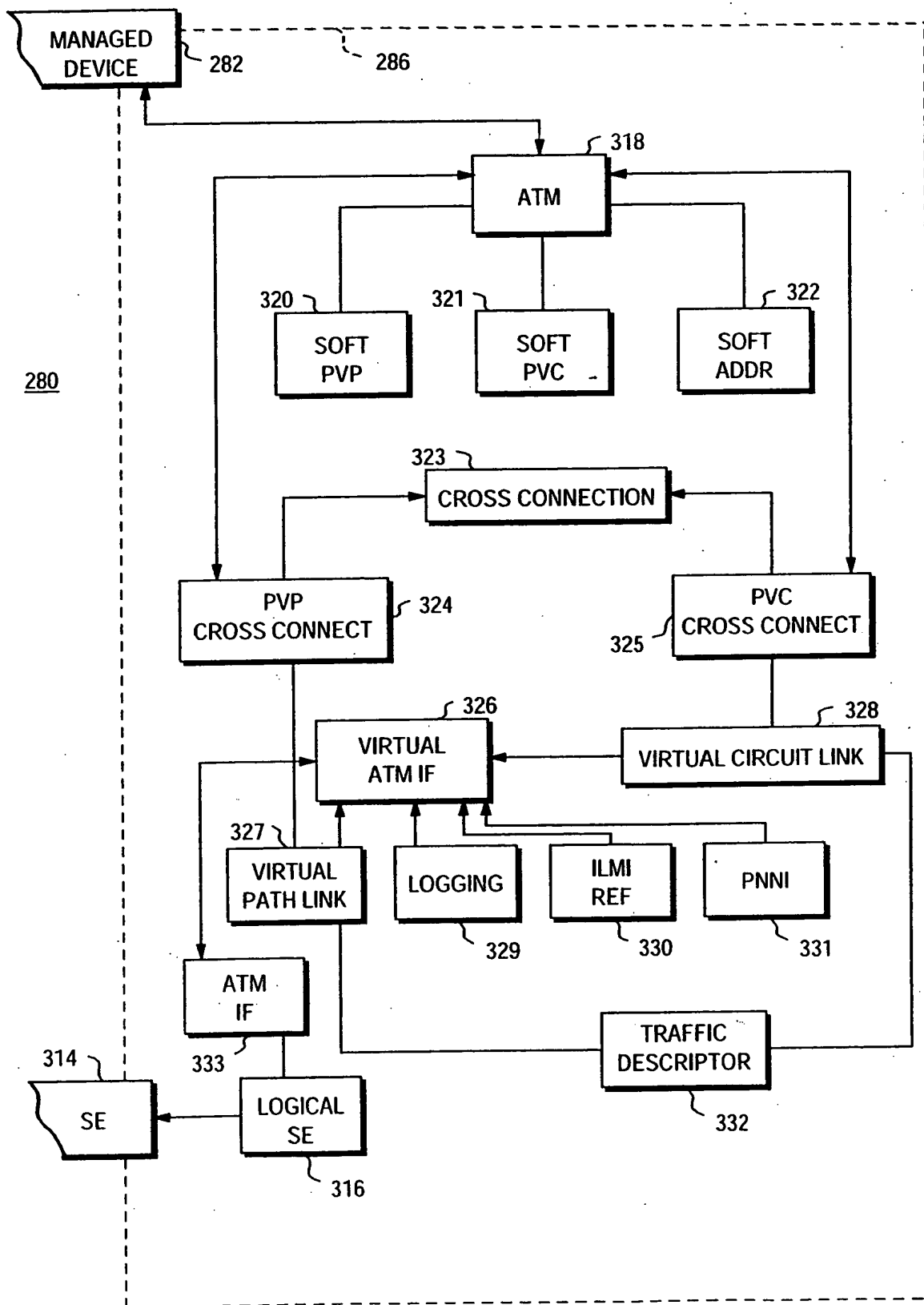
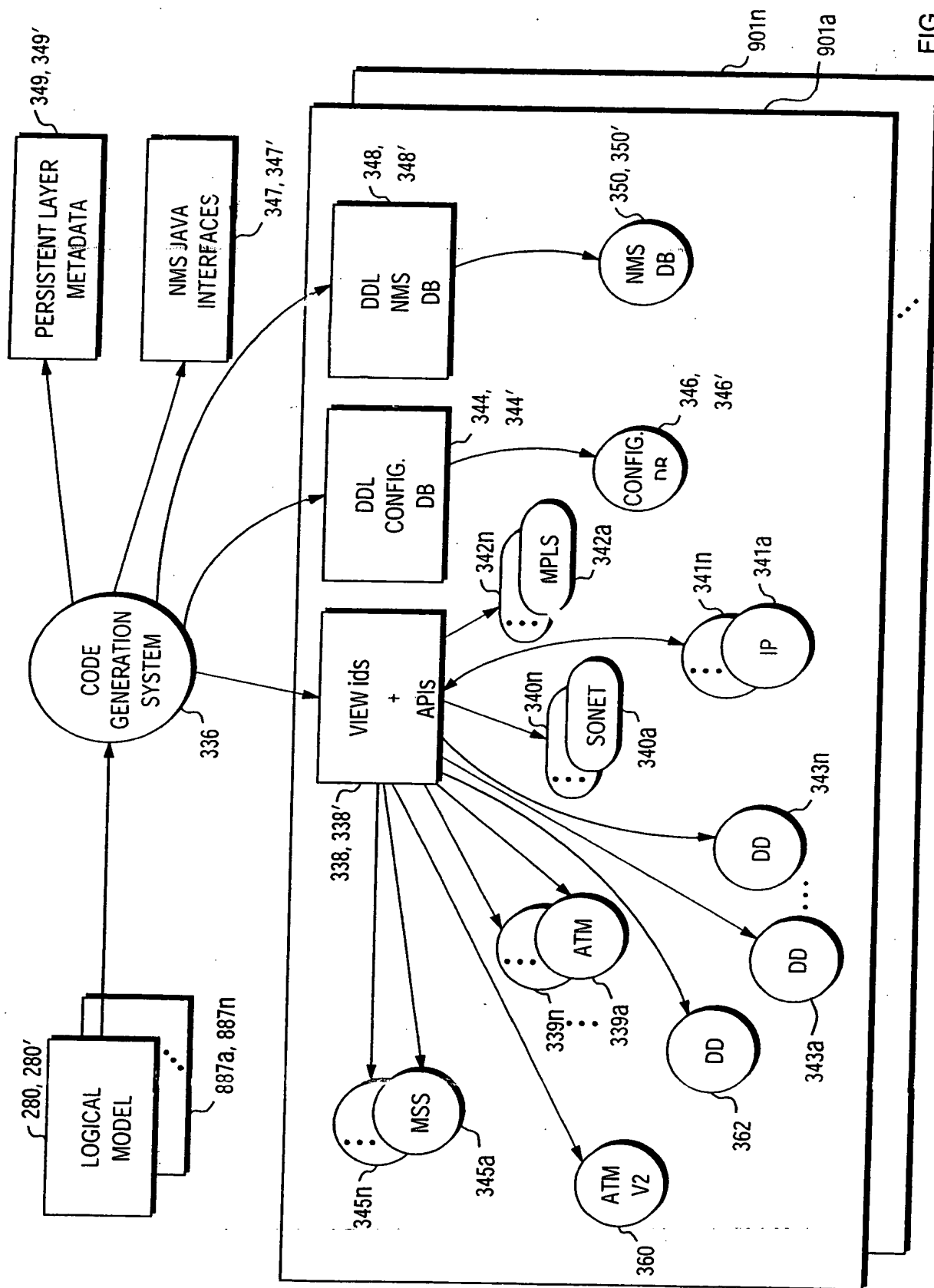


FIG. 3A CONTINUED



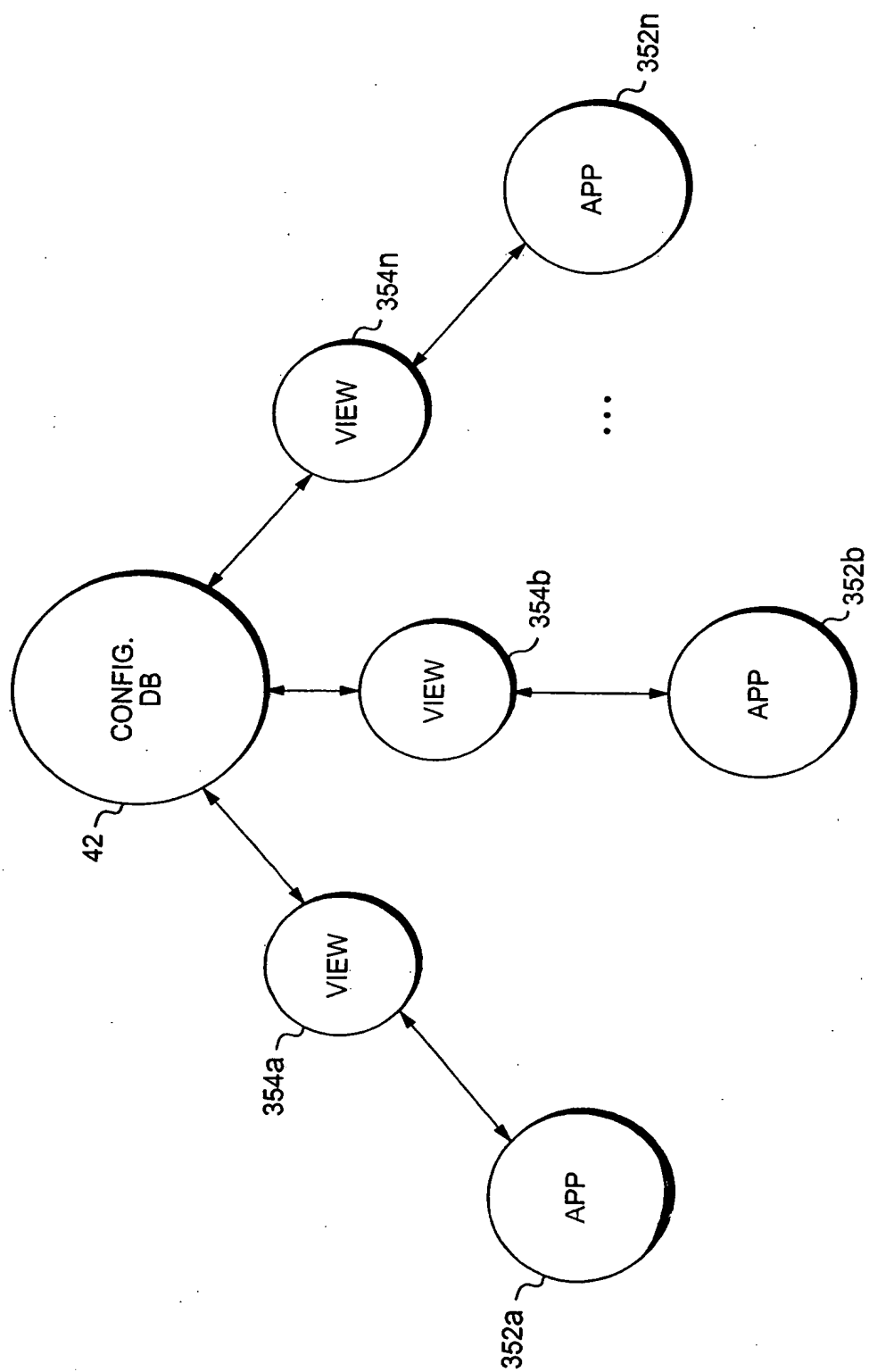


FIG. 3C

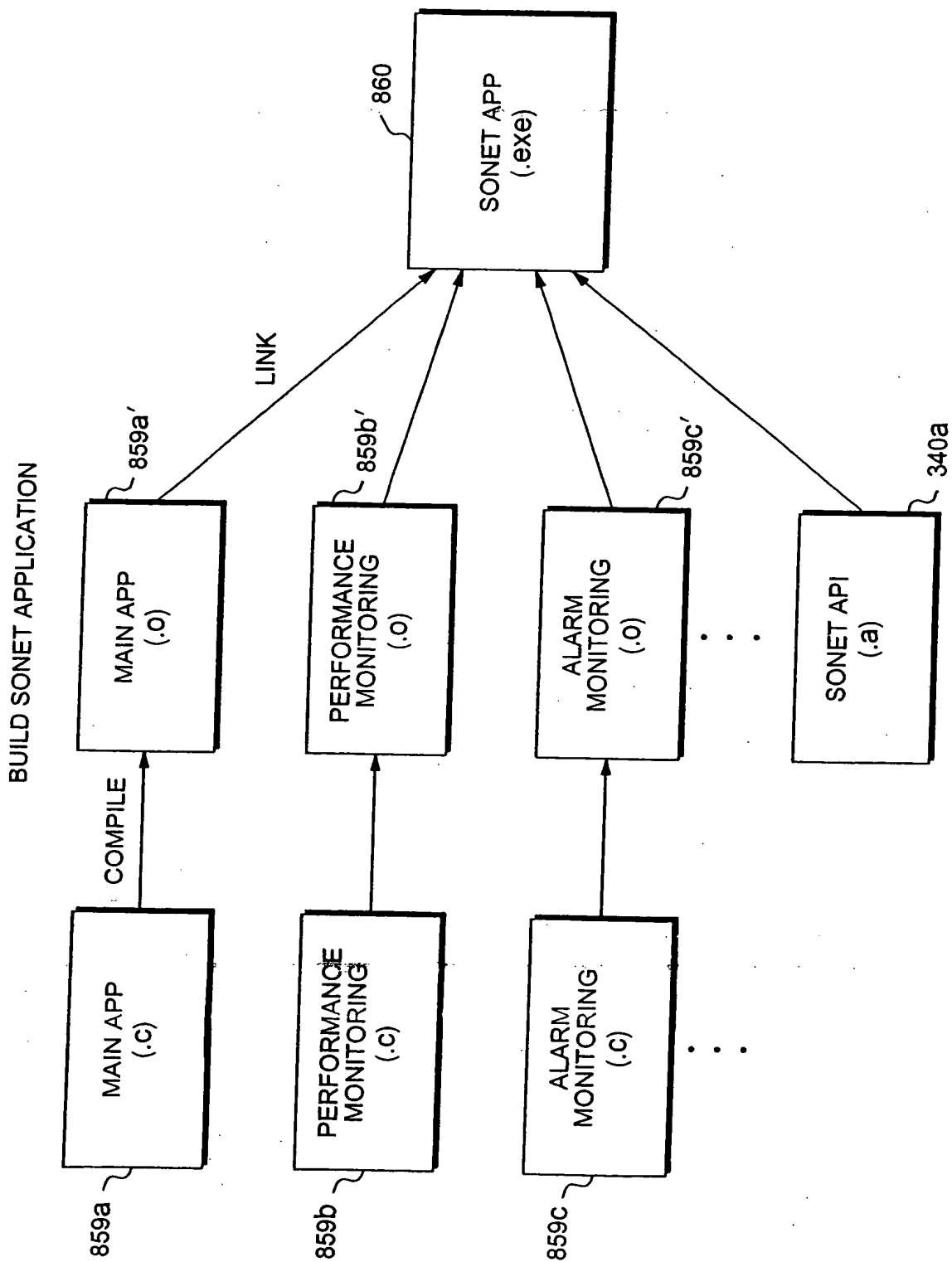


FIG. 3D



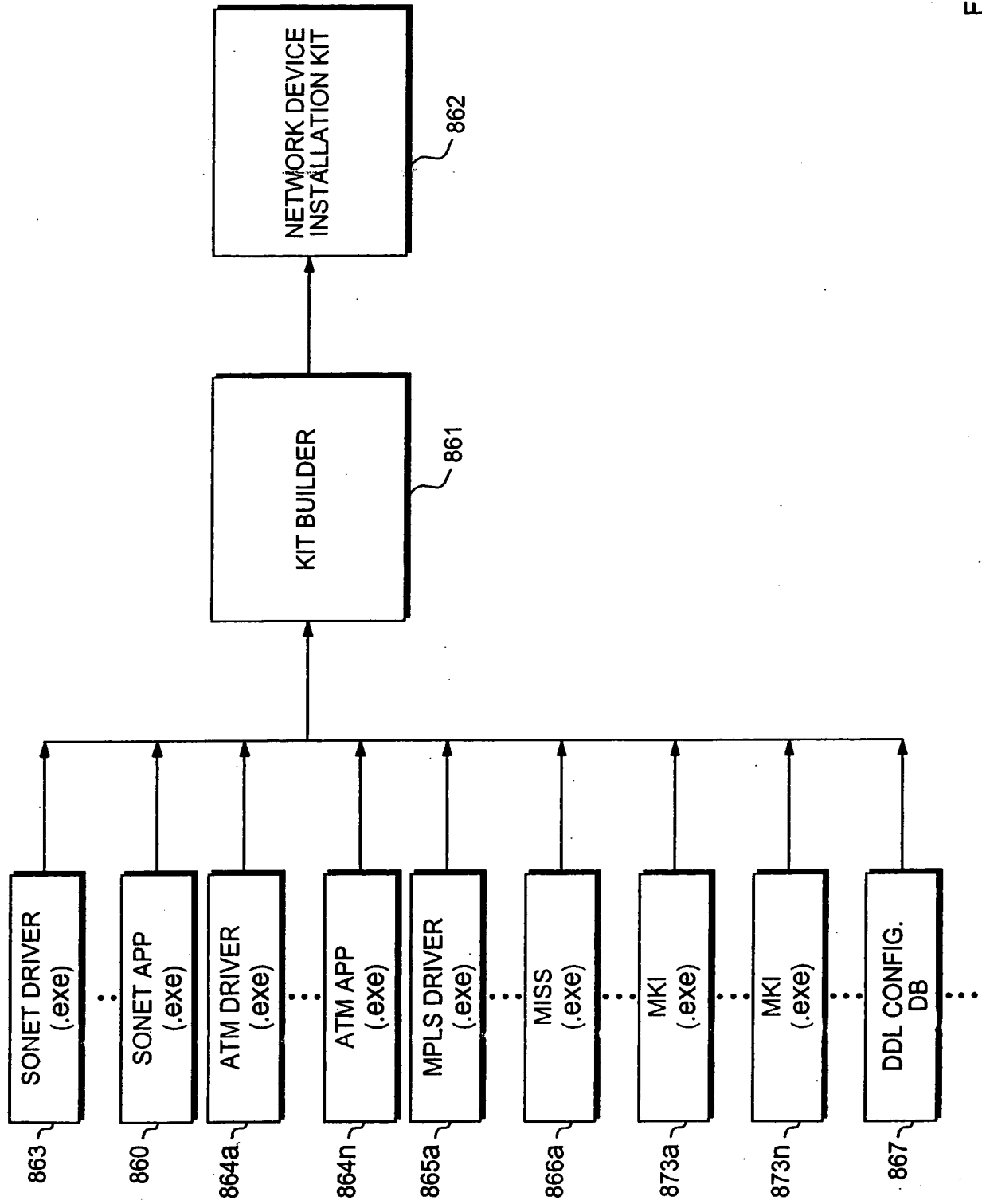


FIG. 3E

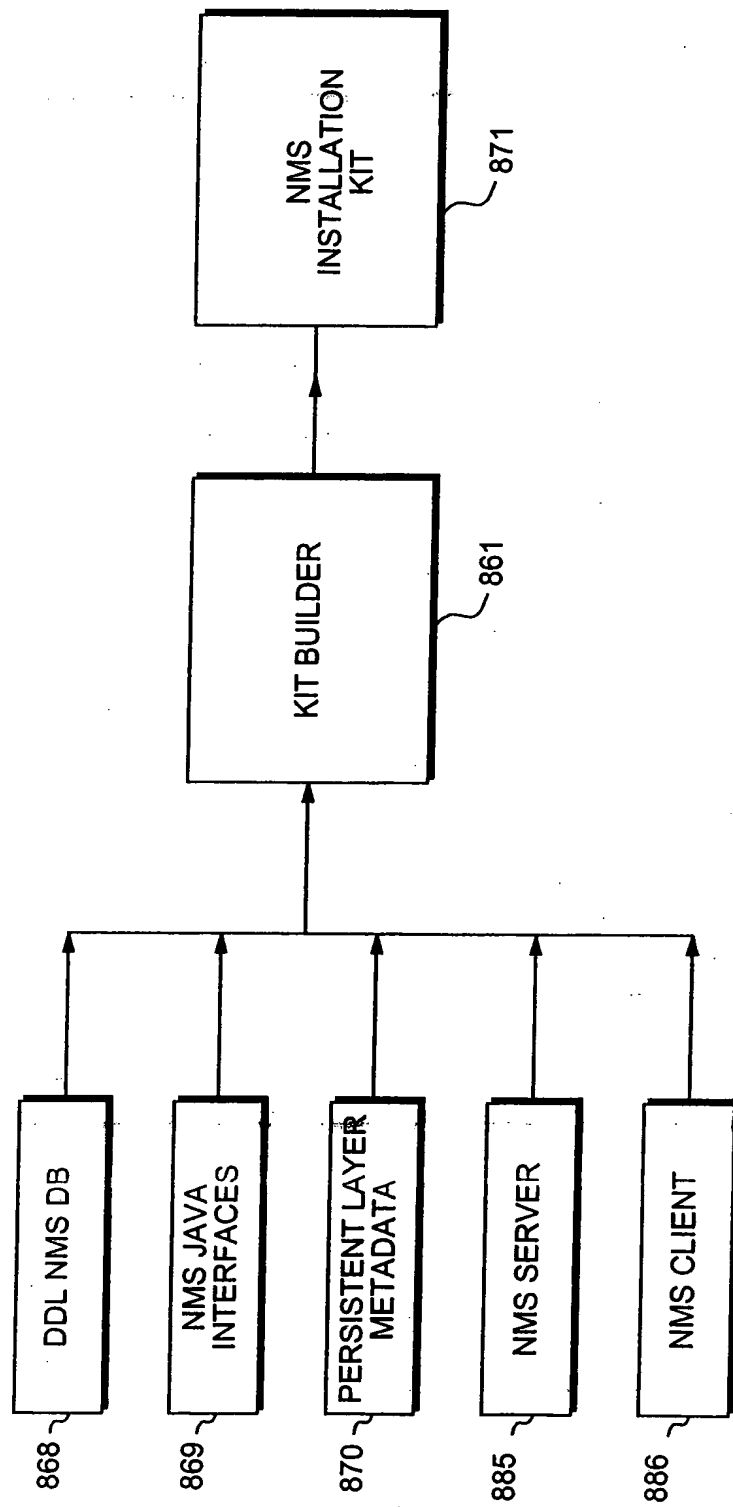


FIG. 3F

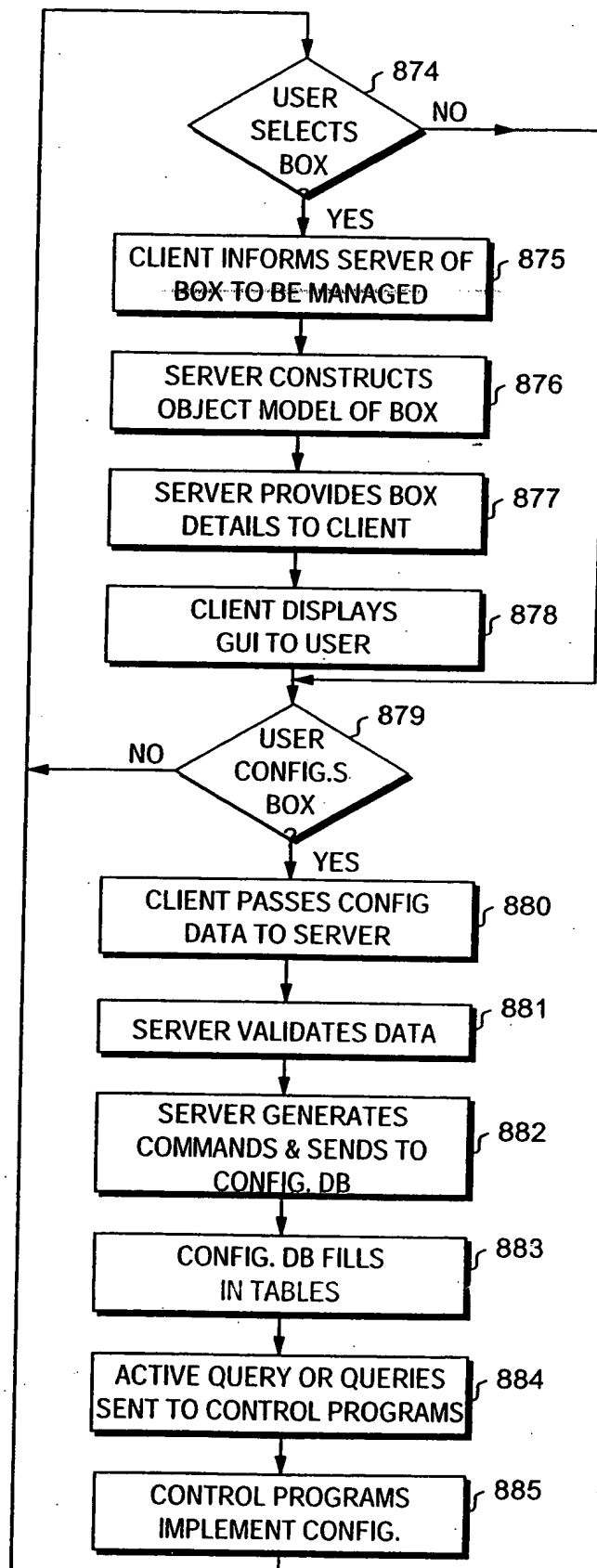


FIG. 3G

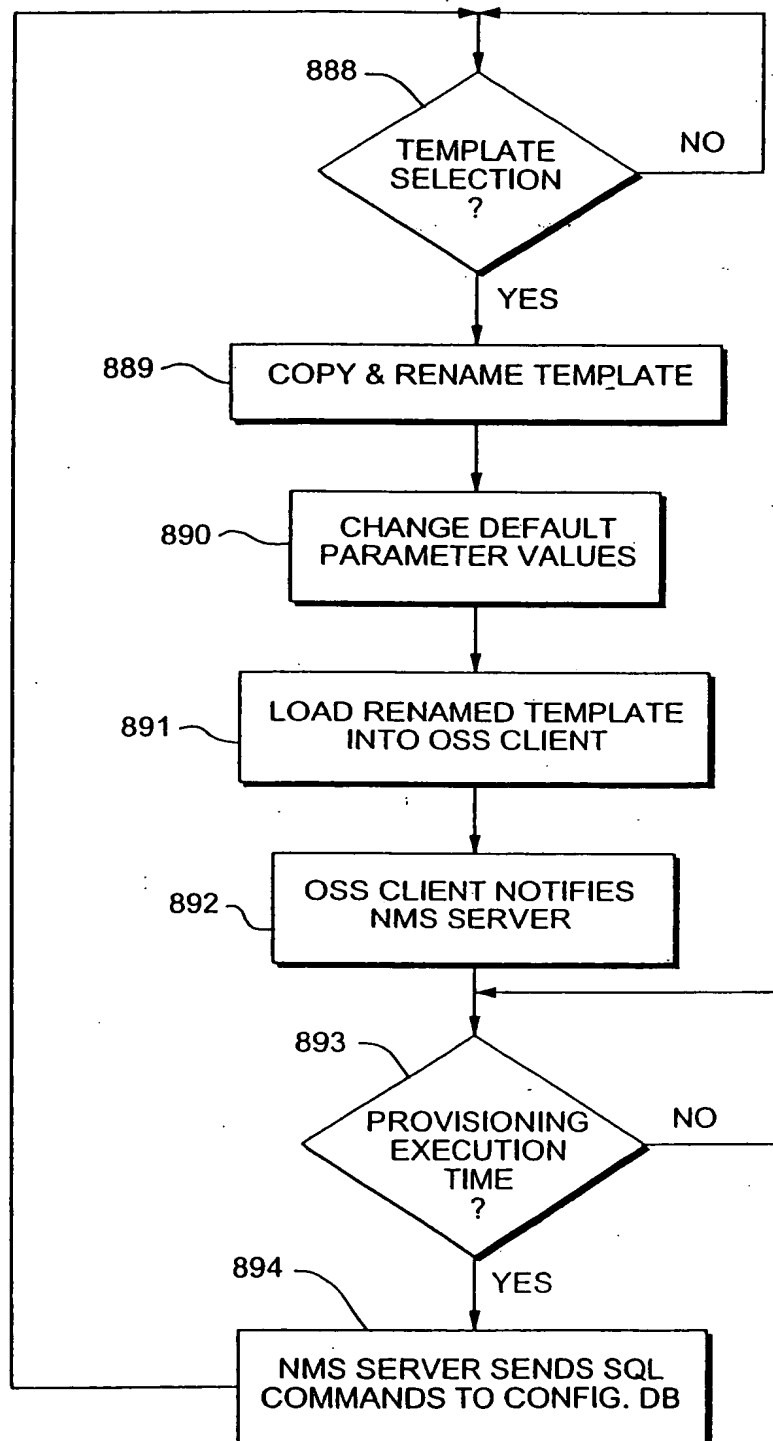


FIG. 3H

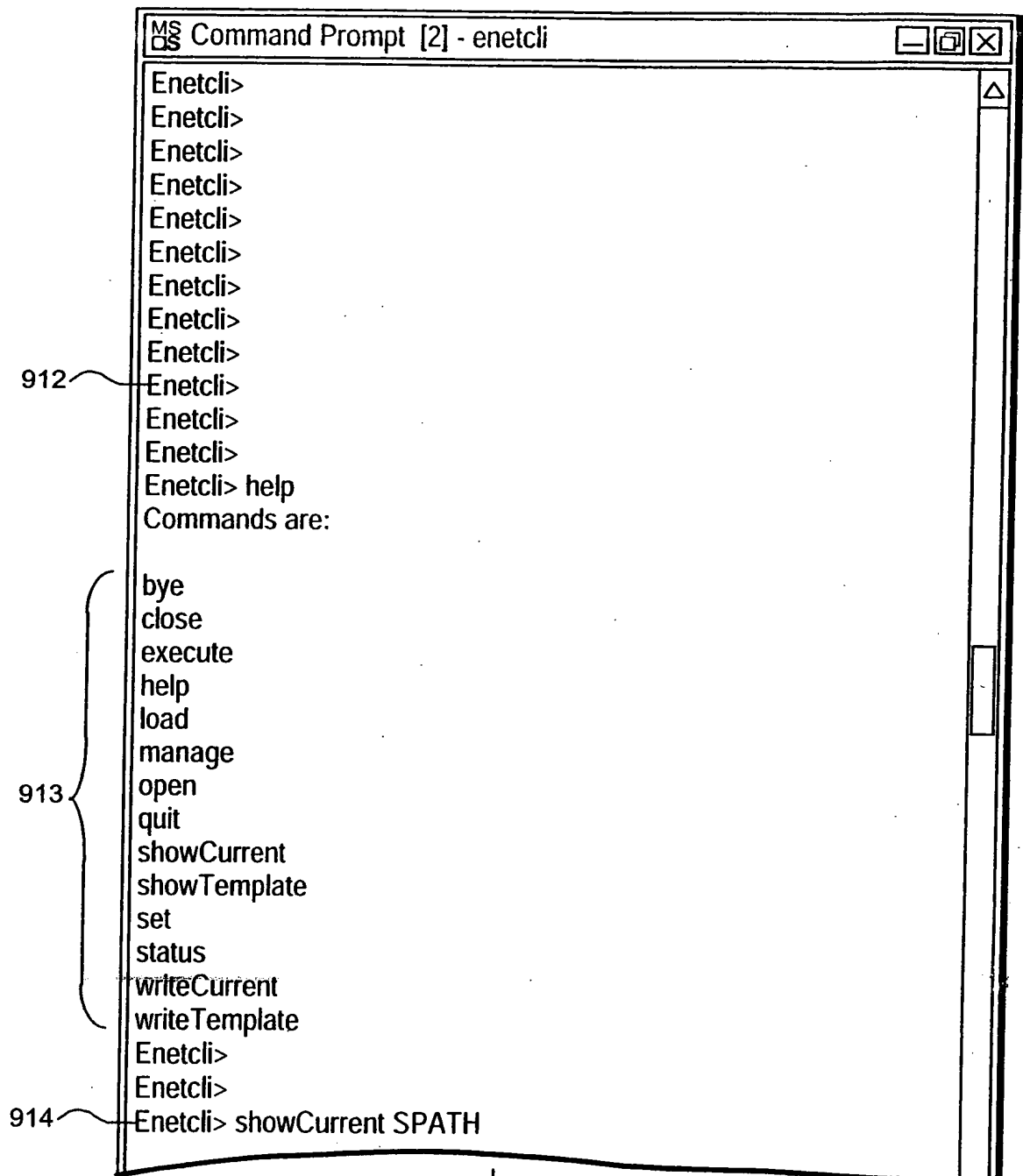


FIG. 3I CONTINUED

FIG. 3I

FROM FIG. 31

```
915 { ATMIfName=ATMIf11/1/1
      Concatenated=false
      Name=Path11/1/1
      Operant=SPATH
      Operator=Create
      PortID=1
      Position=1
      Service=ATM
      ShelfID=11
      SlotID=1
      Type=Terminated
      Version=V1_1_0_0
      Width=STS3
      Enetcli>
      Enetcli>
      Enetcli>
916 { Enetcli> showTemplate SPATH
      ATMIfName=<String>[TerminatedOnly]
      Concatenated=<true:false>
      Name=<String>
      Operant=SPATH
      Operator=<Create:Replace:Update:Delete>
917 { PortID=<Integer><1-16>
      Position=<Integer>
      Service=<None :ATM>
      ShelfID=<11[top],13[bottom]>
      SlotID=<Integer><1-8>
      Type=<switched :Terminated>
      Version=V1_1_0_0
      Width=<STS1:STS3:STS12:STS48>
      Enetcli>
      Enetcli>
918 { Enetcli> status
919 { Not currently connected to server
920 { Supporting templates: CONTROL, PVC, SPATH, SPVC,TD, and VAIF
      Enetcli>
```

FIG. 31 CONTINUED

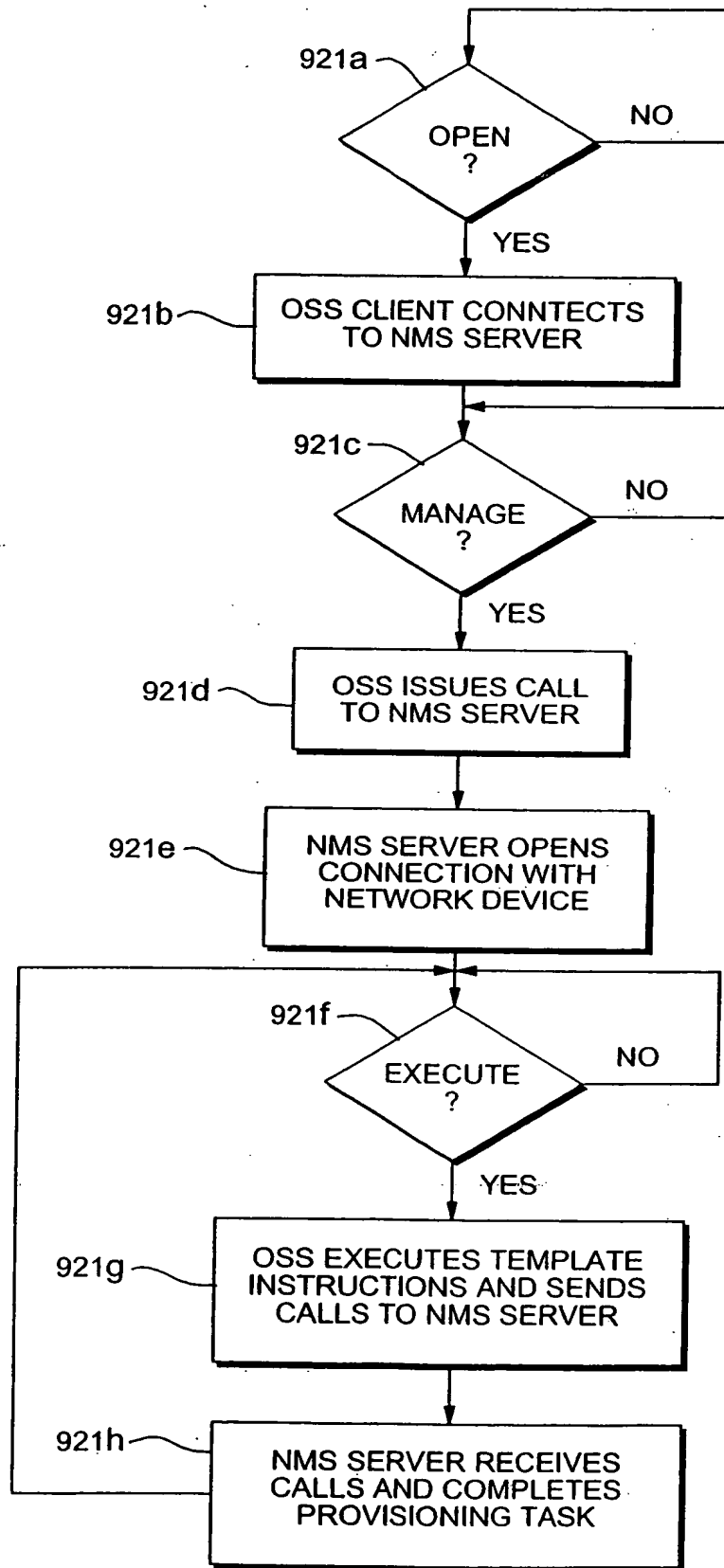


FIG. 3J

```
MS Command Prompt [2] - enetcli
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
922 Enetcli> showCurrent CONTROL
input=Q:\nms\com\equipecom\nms\utils\enetcli
Interactive=false
Operant=CONTROL
923d Operator=Manage
923f Output=Q:\nms\com\equipecom\nms\utils\enetcli
923c Password=None
923e System=192.168.9.202
923b User=None
923g Version=V1_1_0_0
923a Server=localhost
Enetcli>_
```

FIG. 3K



BATCH

924



Operant=BATCH

Operator=Execute

Version=V1\_1\_0\_0

924a ~ TASK1=execute-SPATH

924b ~ TASK2=execute-PVC

924c ~ TASK3=execute-SPVC

924d ~ TASK4=load-SPVC-spvc1

924e ~ TASK5=execute-SPVC

924f ~ TASK6=load-SPVC-spvc2

924e ~ TASK7=execute-SPVC

.

.

924g ~ TASK50=set-SPATH-PortID-3

924h ~ TASK51=execute-SPATH

924i ~ TASK52=set-SPATH-SlotID-2

924j ~ TASK53=execute-SPATH

FIG. 3L

925

Operant=BATCH  
Operator=Execute  
Version=V1\_1\_0\_0  
925a ~ TASK1=execute-CONTROL  
925b ~ TASK2=execute-SPATH  
925c ~ TASK3=set-SPATH-PortID-3  
925d ~ TASK4=execute-SPATH  
.  
.  
925e ~ TASK61=set-CONTROL-System-192.168.9.201  
925f ~ TASK62=execute-CONTROL  
925g ~ TASK63=execute-SPATH  
.  
.  
925h ~ TASK108=close  
925i ~ TASK109=set-CONTROL-Server-Server1  
925j ~ TASK110=set-CONTROL-System-192.168.8.200  
925k ~ TASK111=execute-CONTROL  
925l ~ TASK112=execute-SPATH  
.  
.  
.

FIG. 3M

895 →

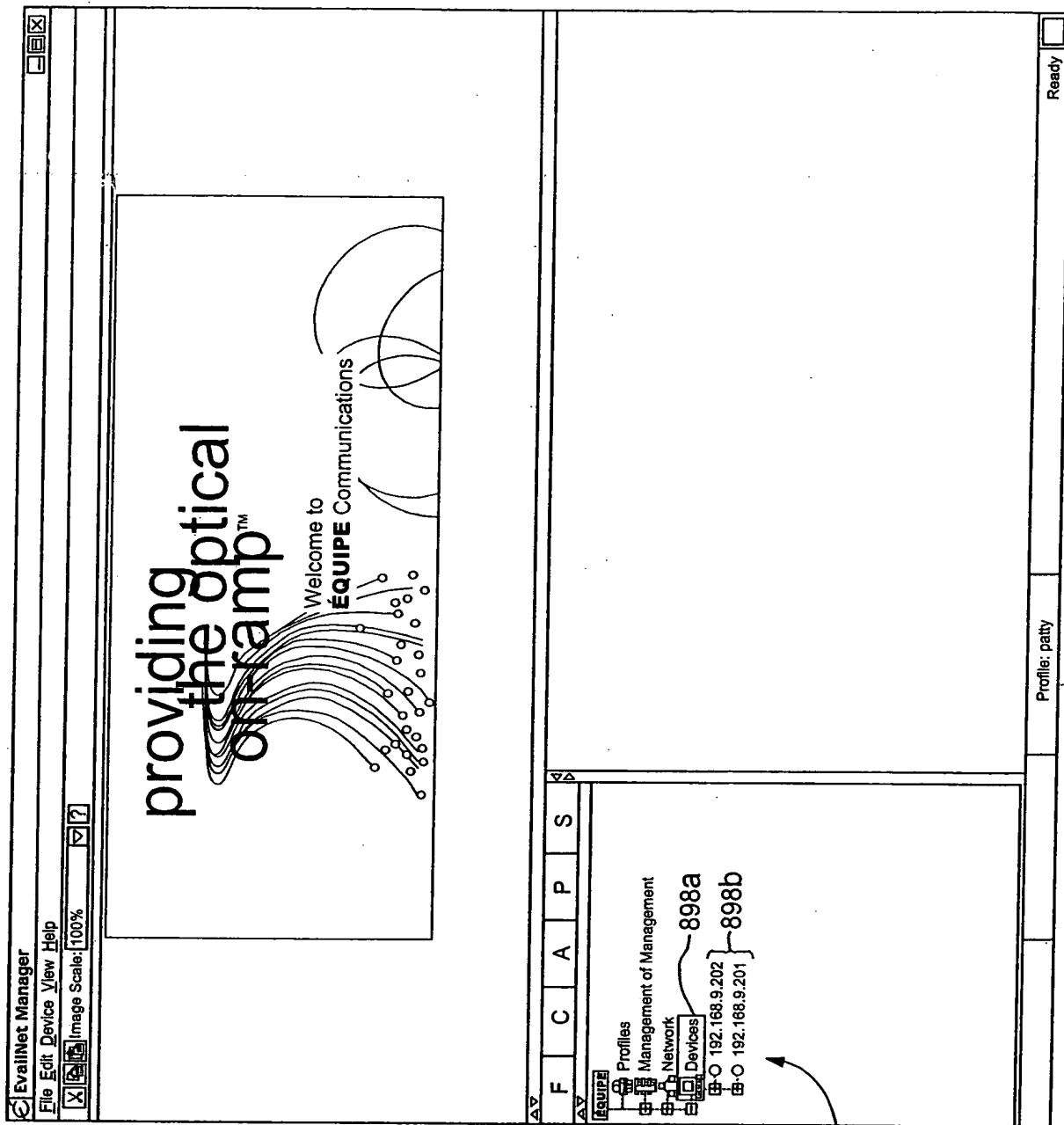
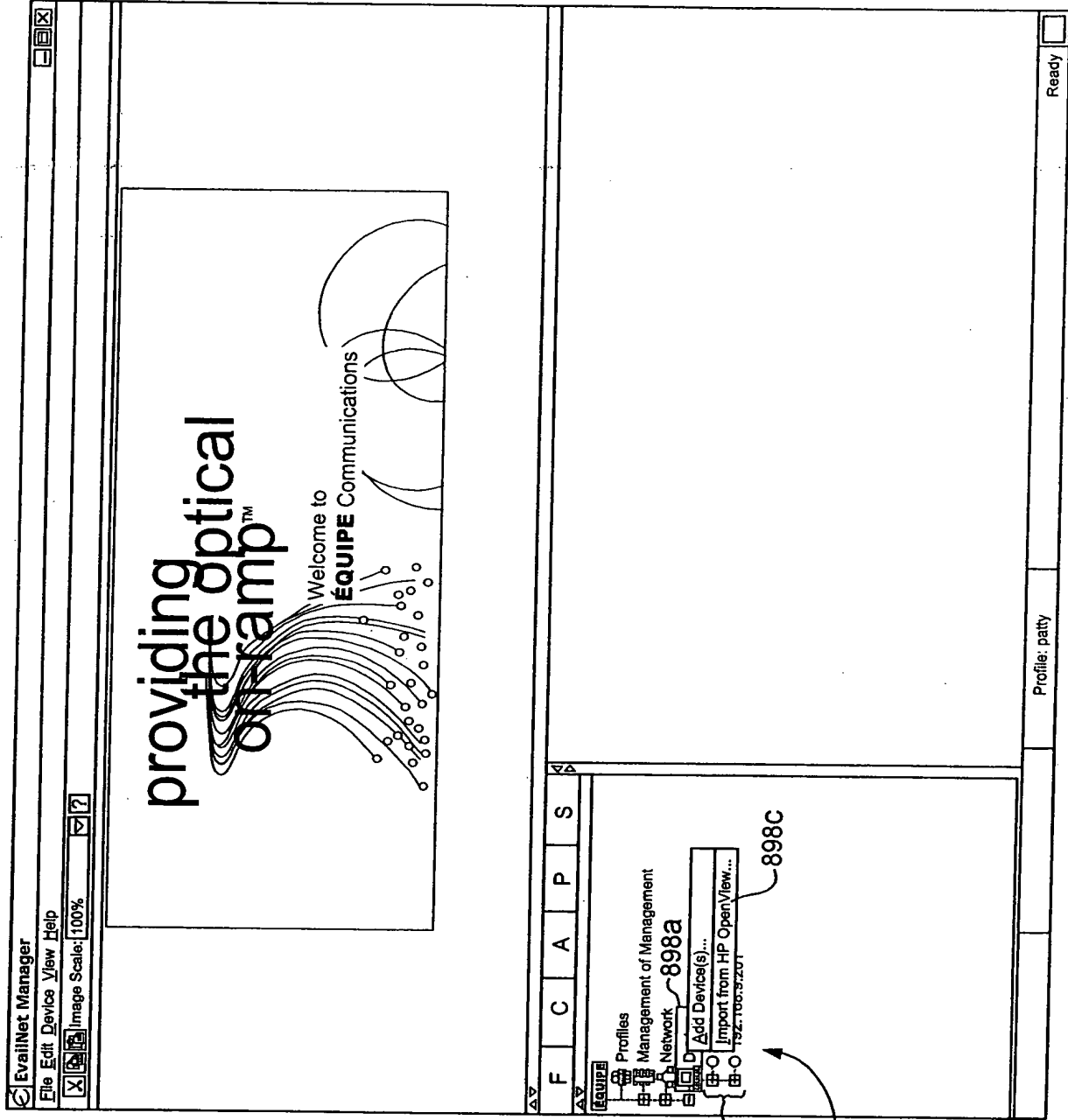


FIG. 4A

895



898b

898

898c

FIG. 4B

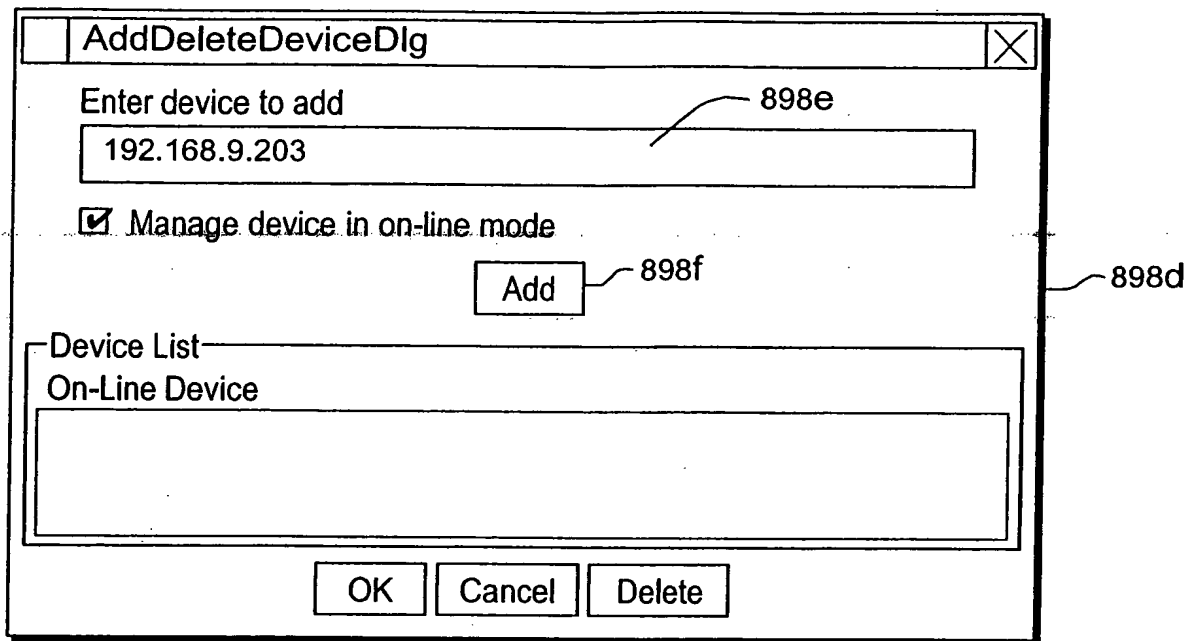


FIG. 4C

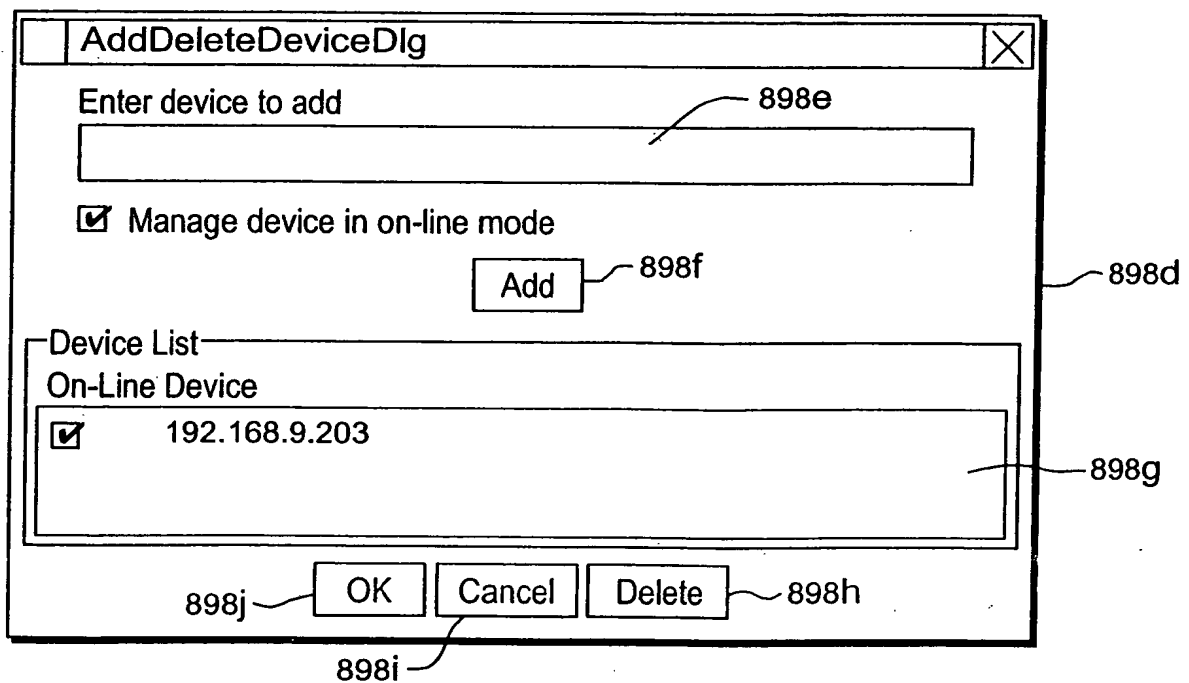
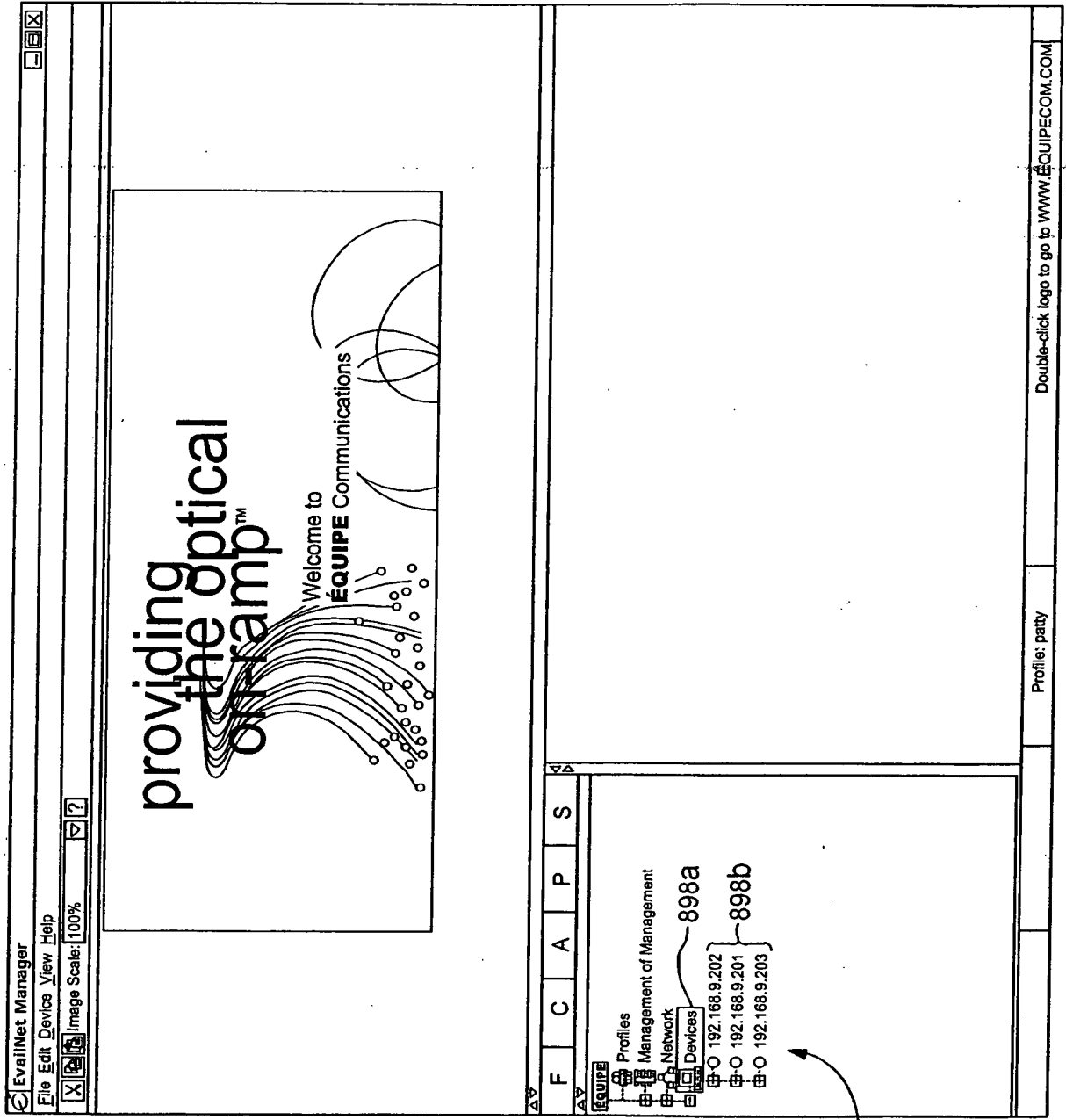


FIG. 4D

895



898

FIG. 4E

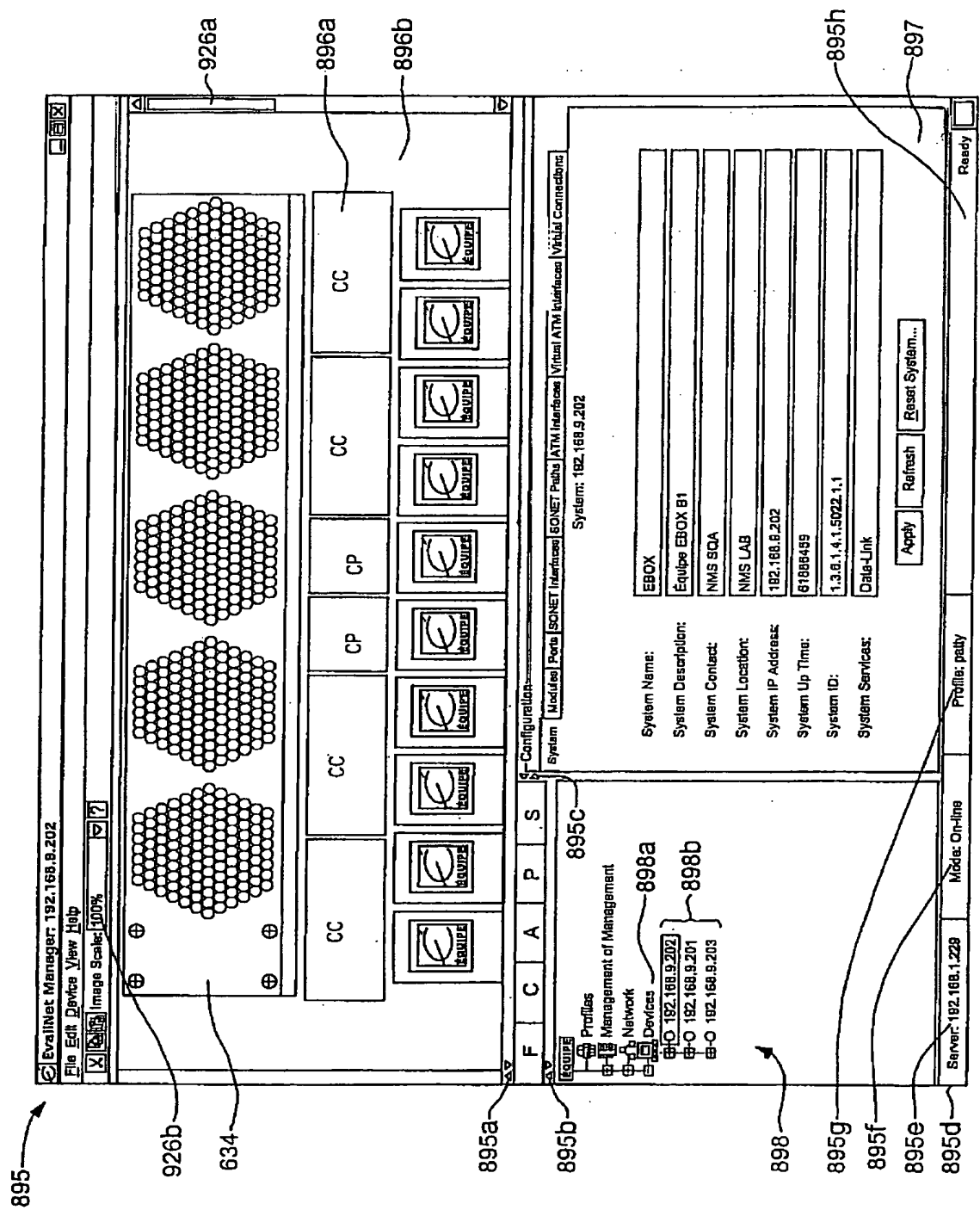


FIG. 4F

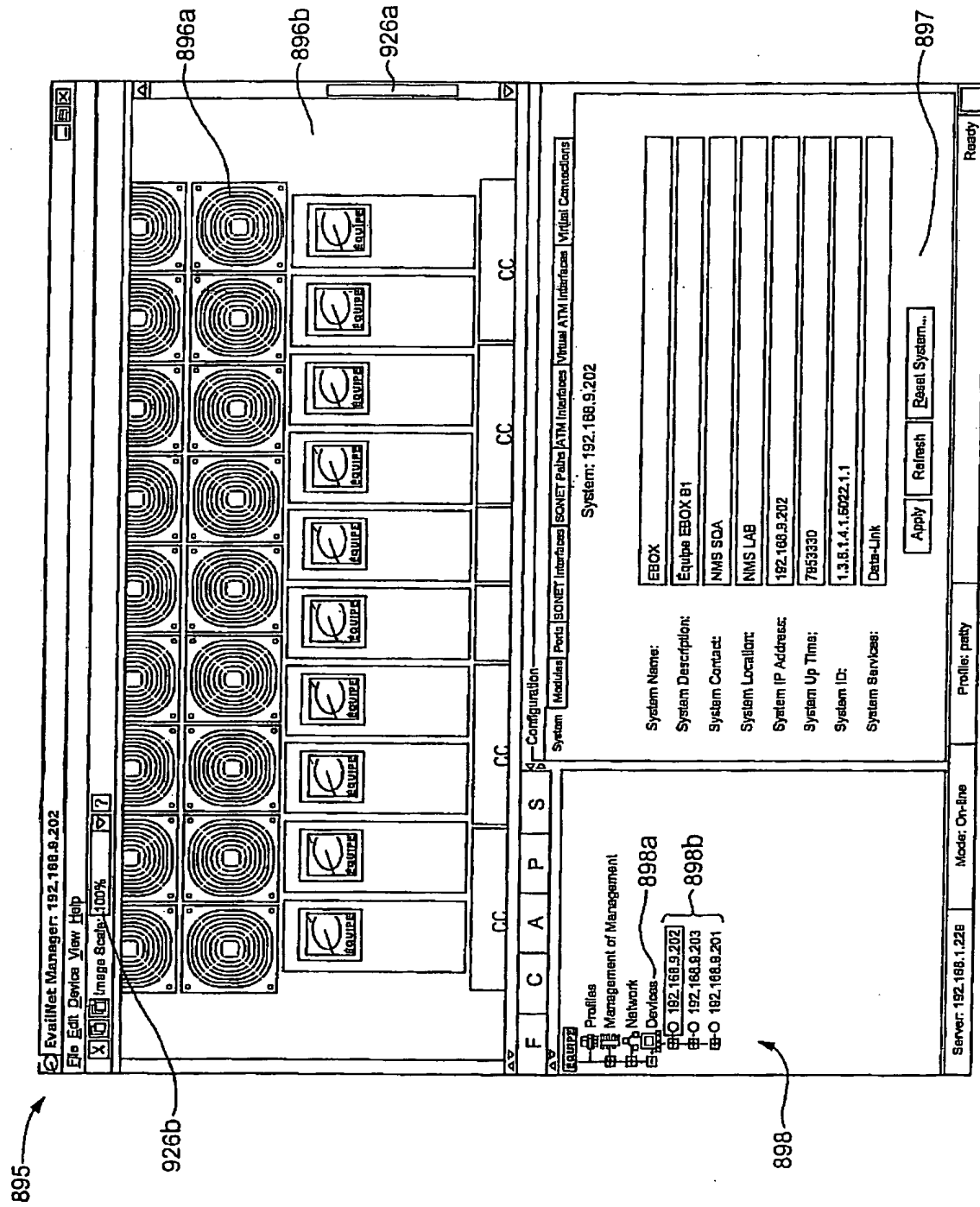


FIG. 4G



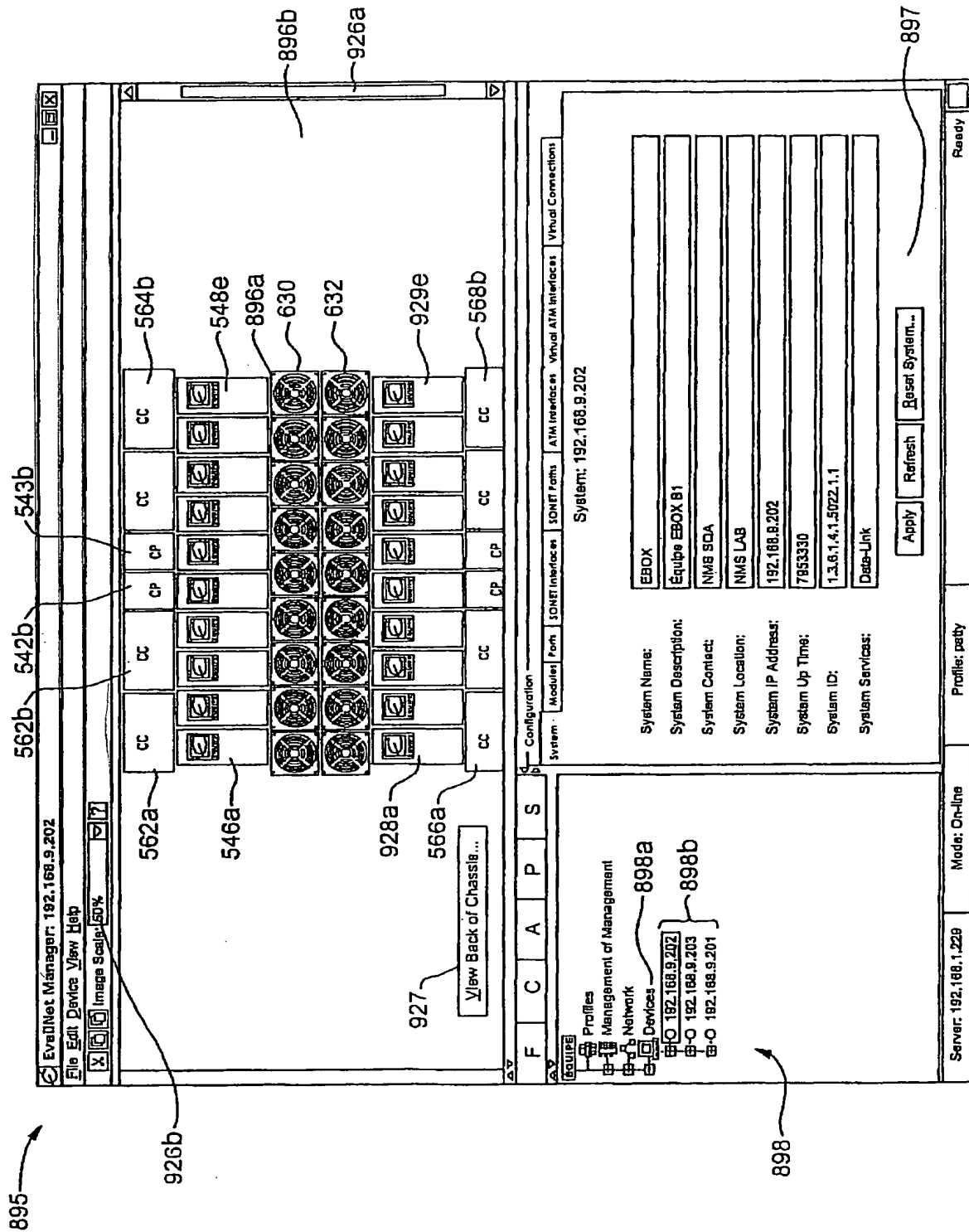


FIG. 4H

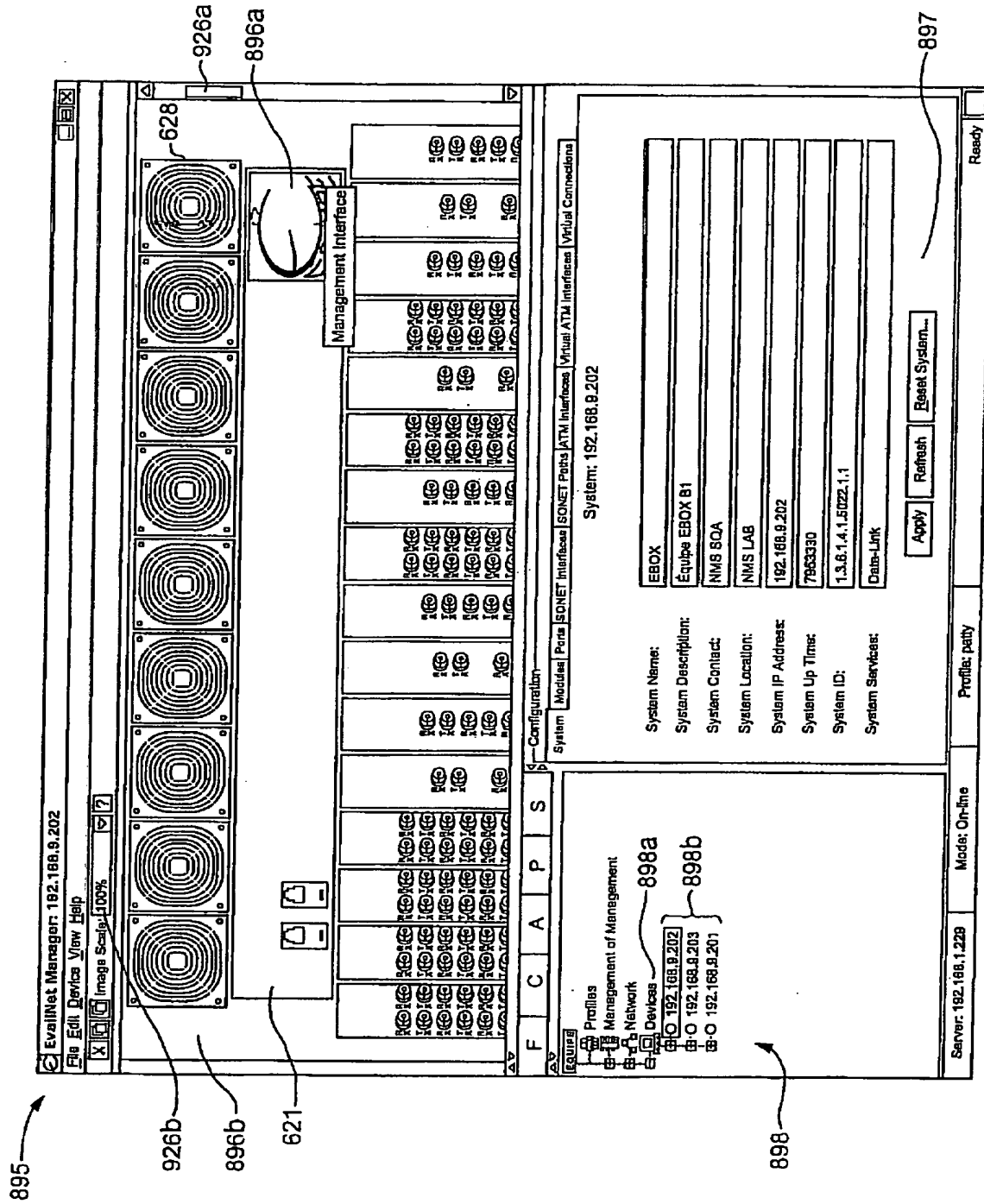


FIG. 41

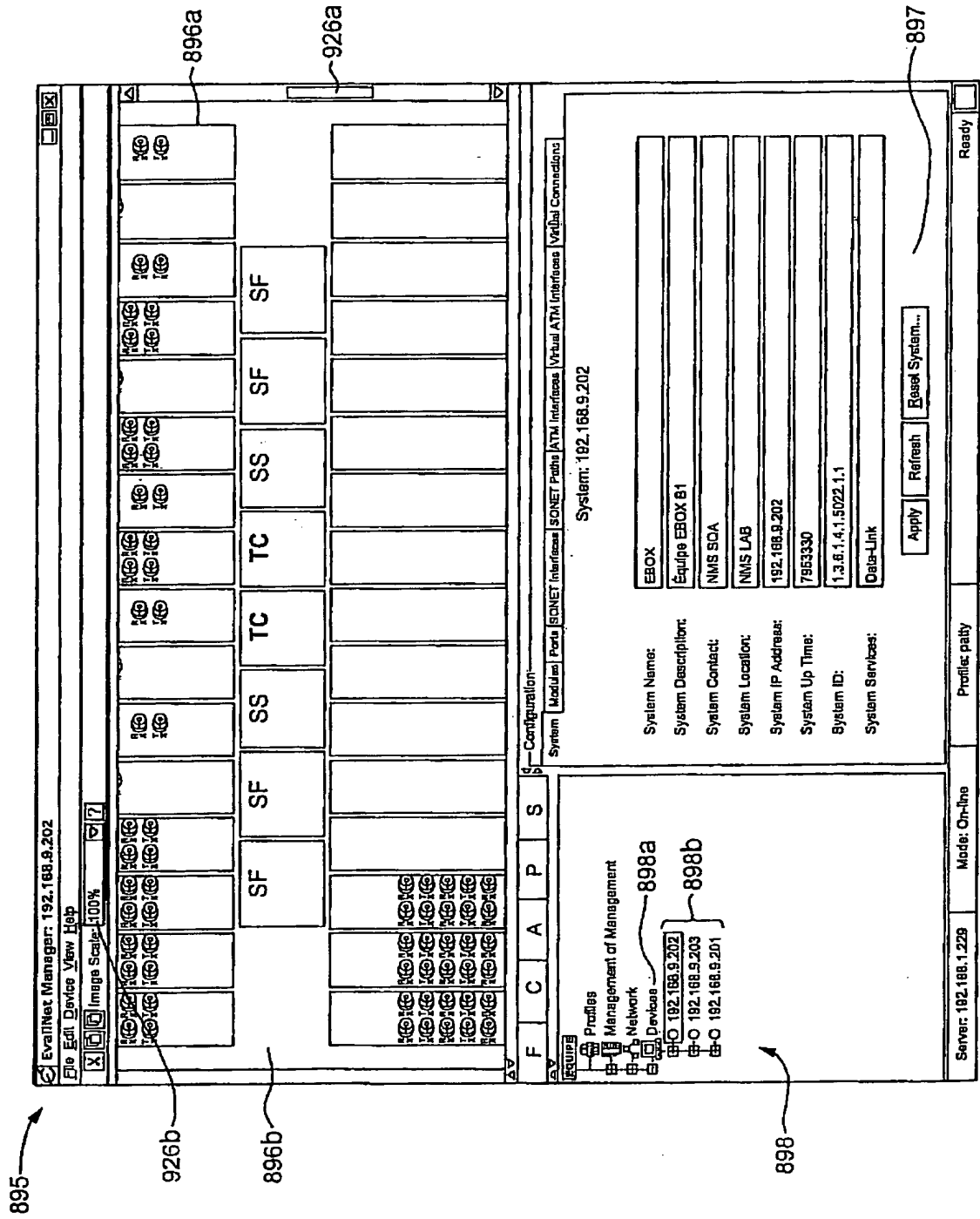


FIG. 4J

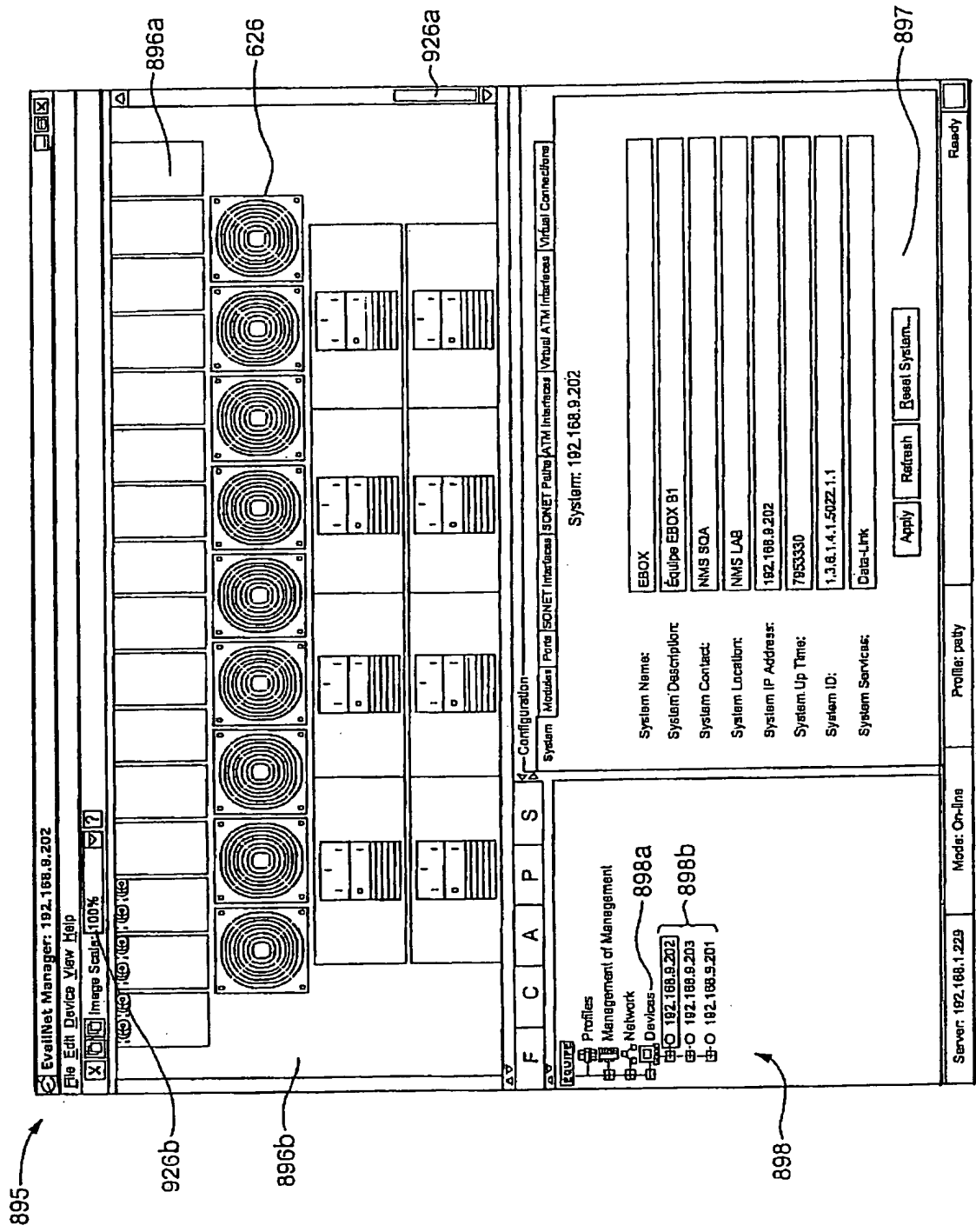


FIG. 4K

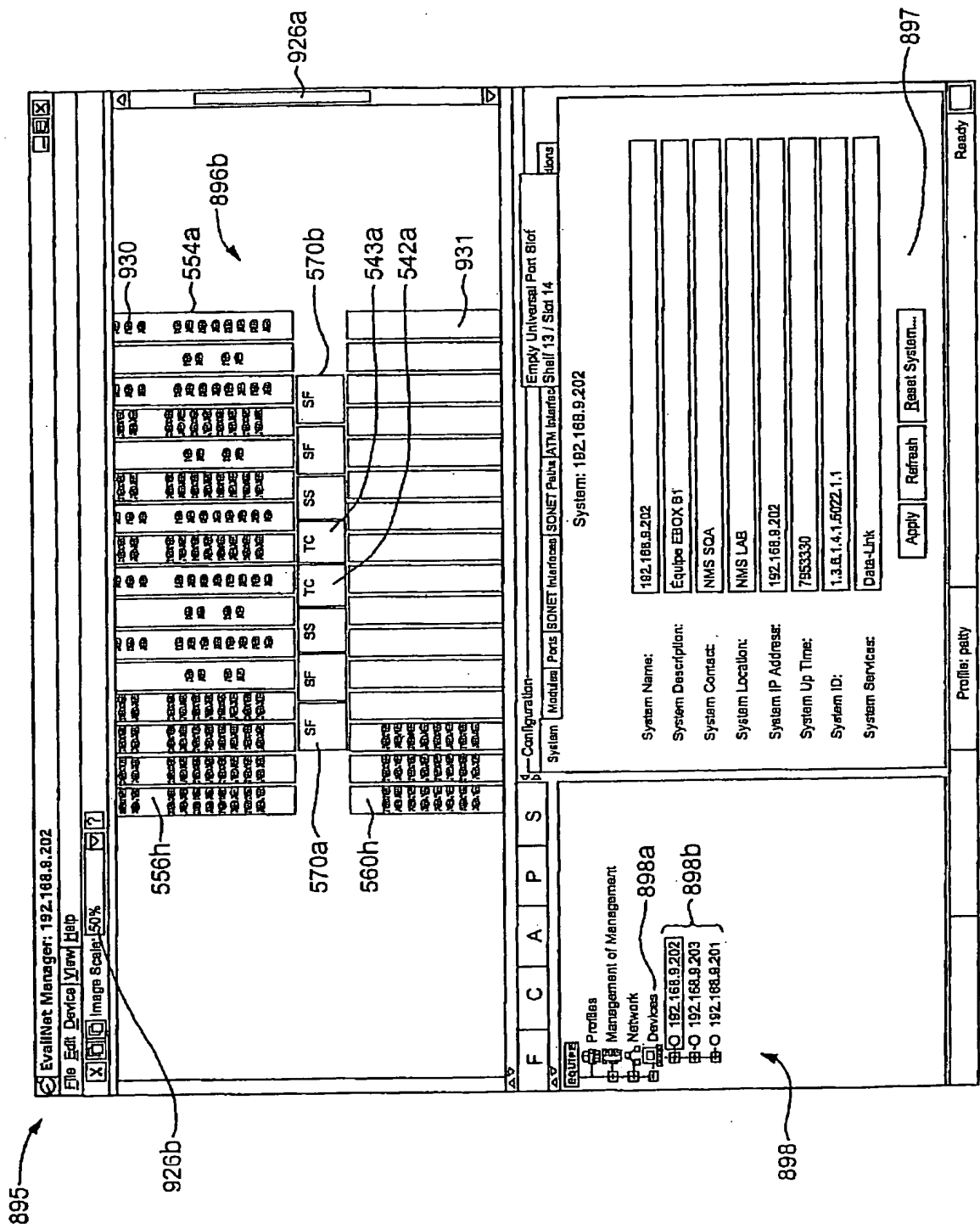


FIG. 4L

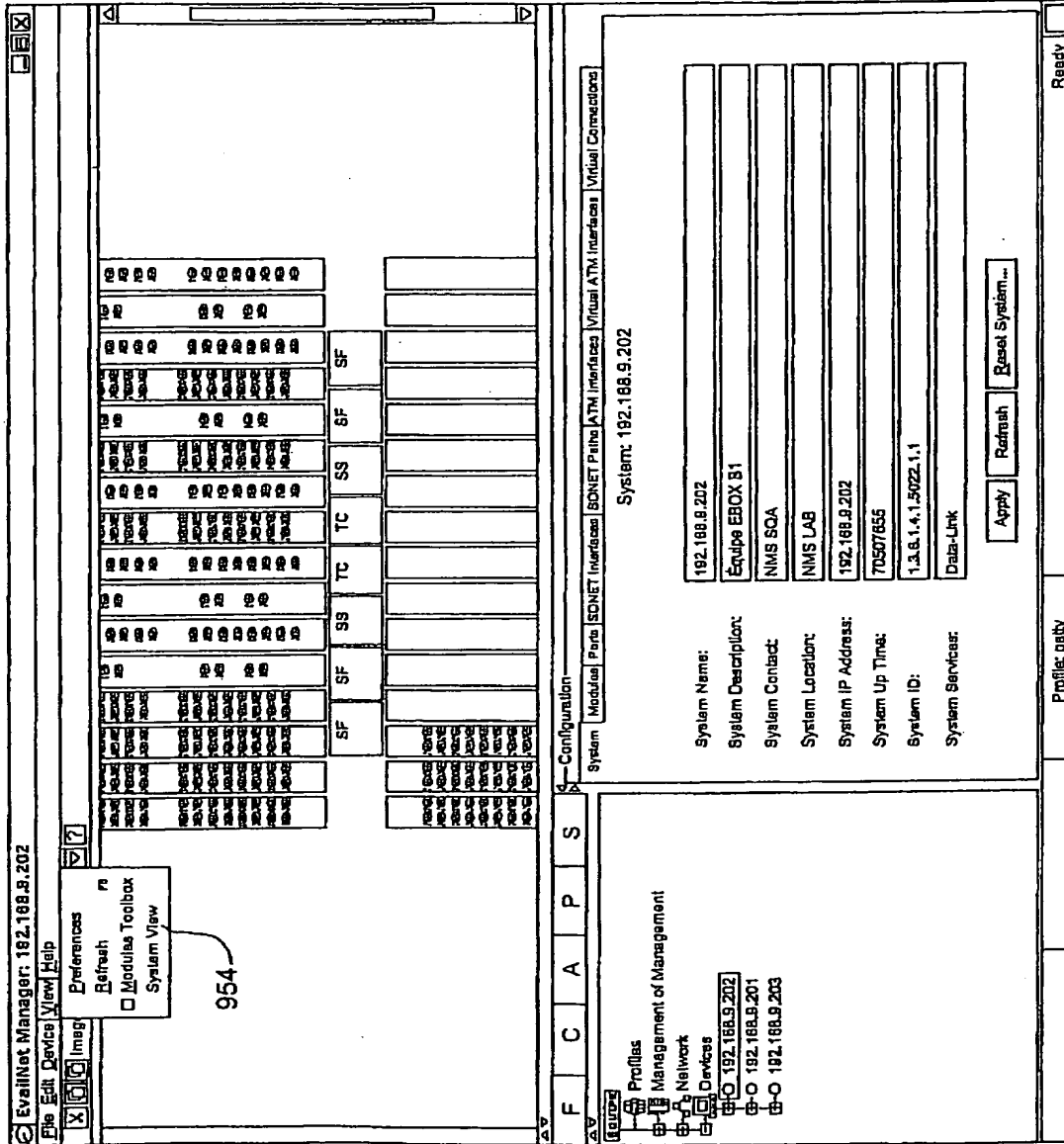
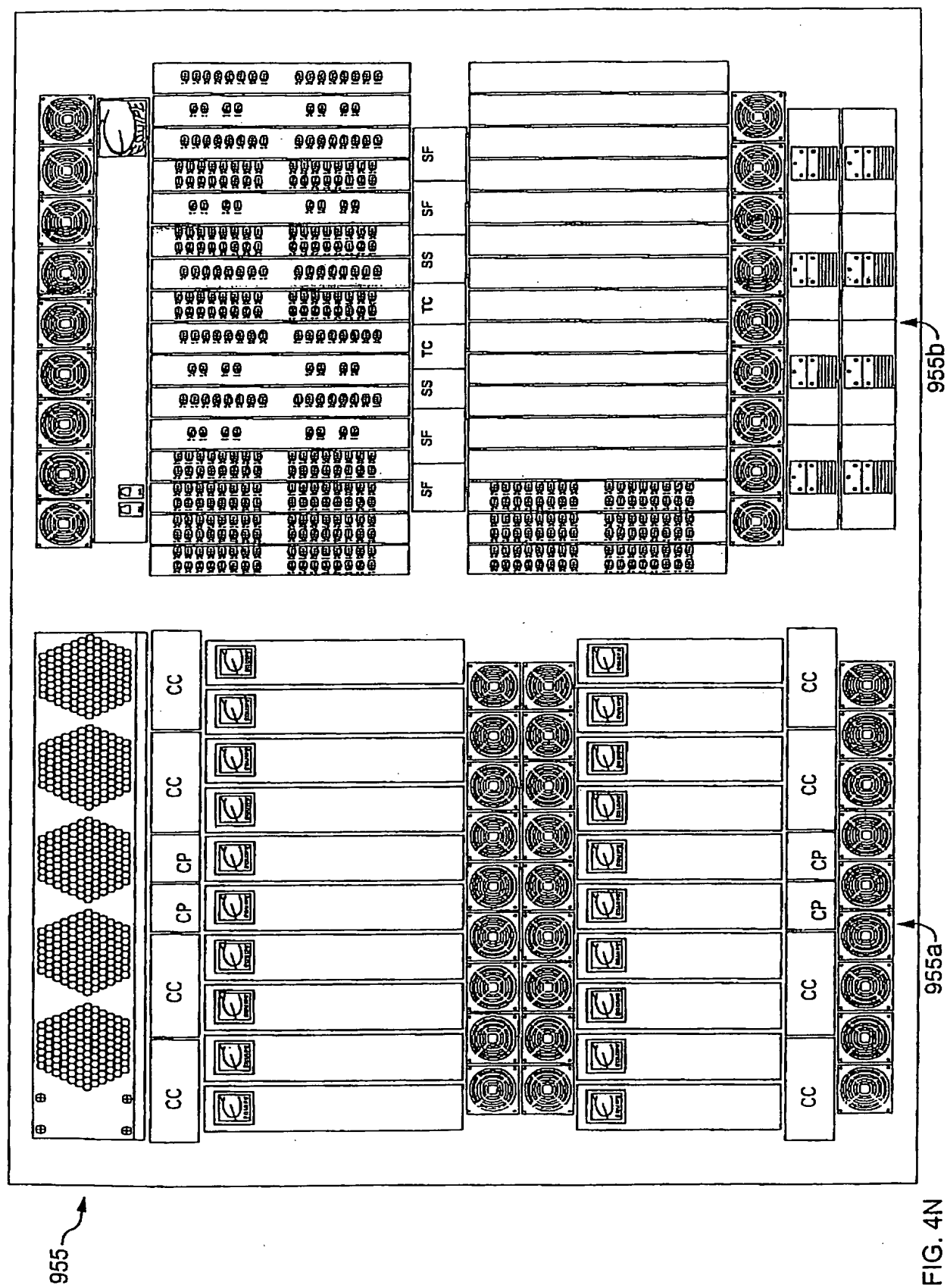


FIG. 4M



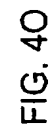


FIG. 40









895

EvallNet Manager: 192.168.9.202  
File Edit Device View Help  
Image Scale: 100%

OC-12

Shelf 11/Slot 4/Port 1

932e

933

934

935a

935b

F C A P S

Configuration

System

Modems

Ports

SONET Interfaces

SONET Paths

ATM Interfaces

Virtual ATM Interfaces

Virtual Combinations

System: 192.168.9.202

934a

934b

934c

934d

934e

934f

934g

934h

935c

935a

935b

Server: 192.168.1.229

Mode: On-line

Profile: patty

Ready

FIG. 4S

895

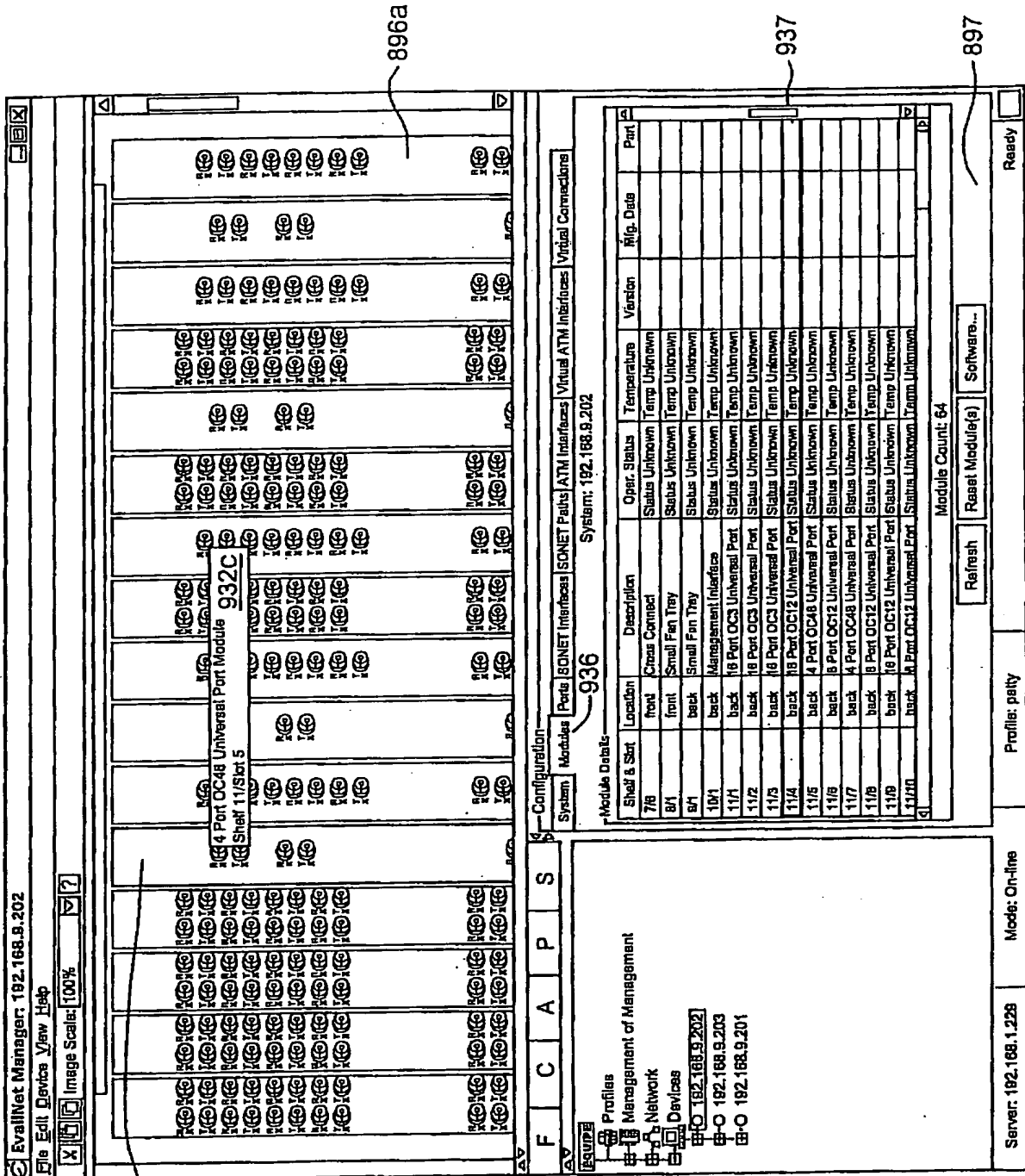
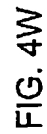


FIG. 4T

FIG. 4U

FIG. 4V



**FIG. 4W**



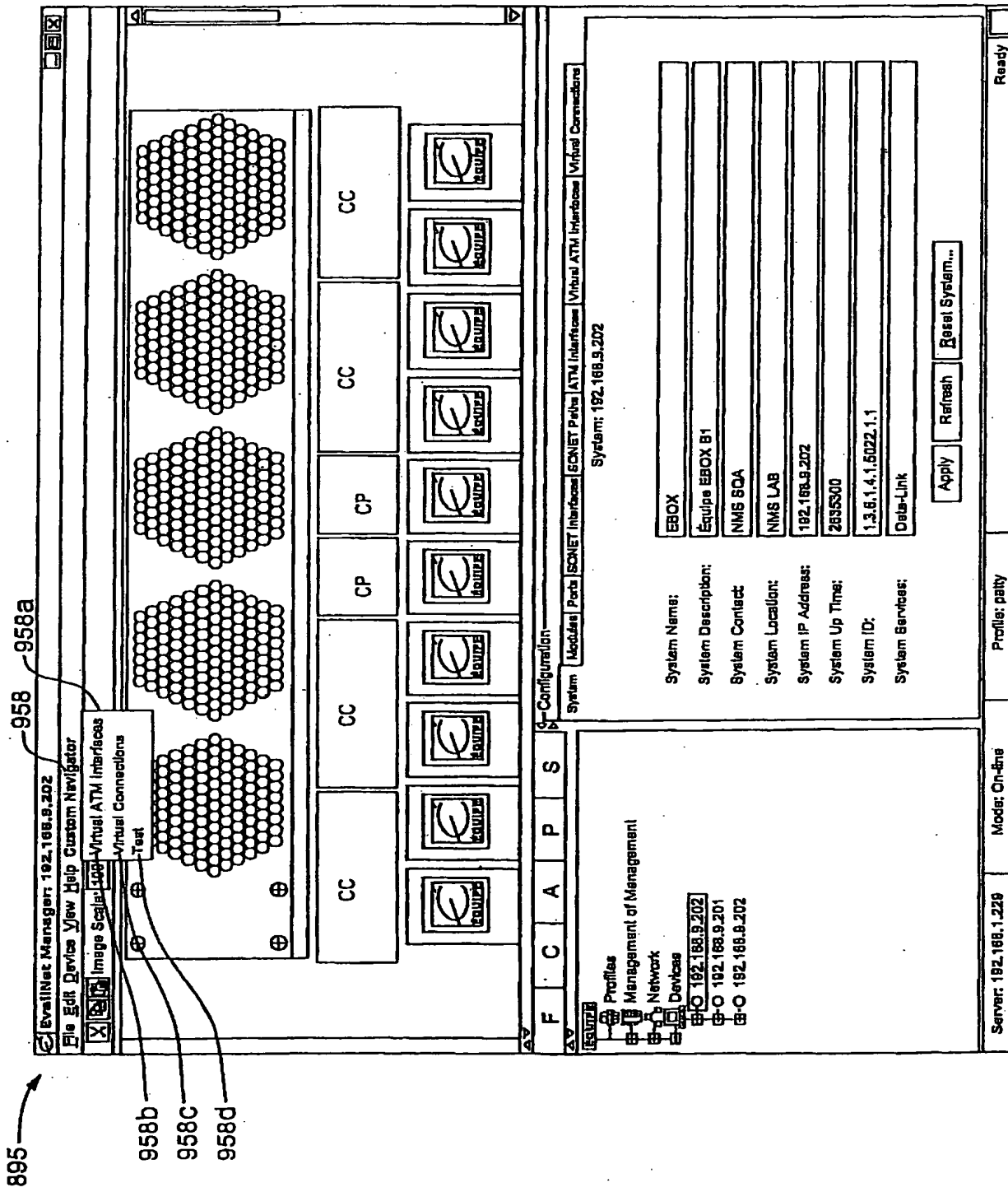


FIG. 4X

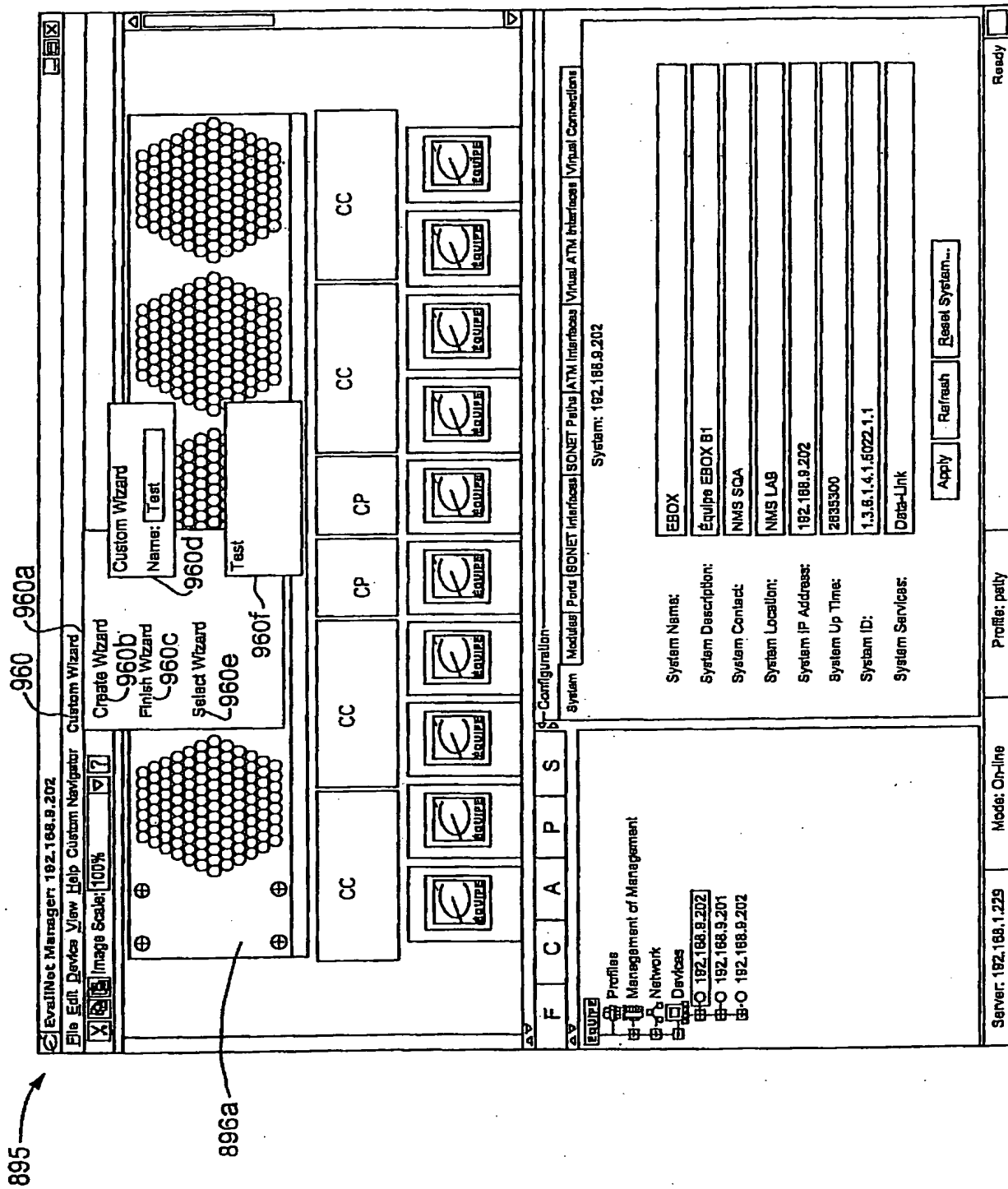


FIG. 4Y

961

EvaiNet Manager: SONET Path Configuration 11/5/1

System: 192.168.9.202

SONET Line

961a

Slot

Port

Type

SONET Path Wizard

4

paths

Configure a single concatenated path (STS-48c)

Configure

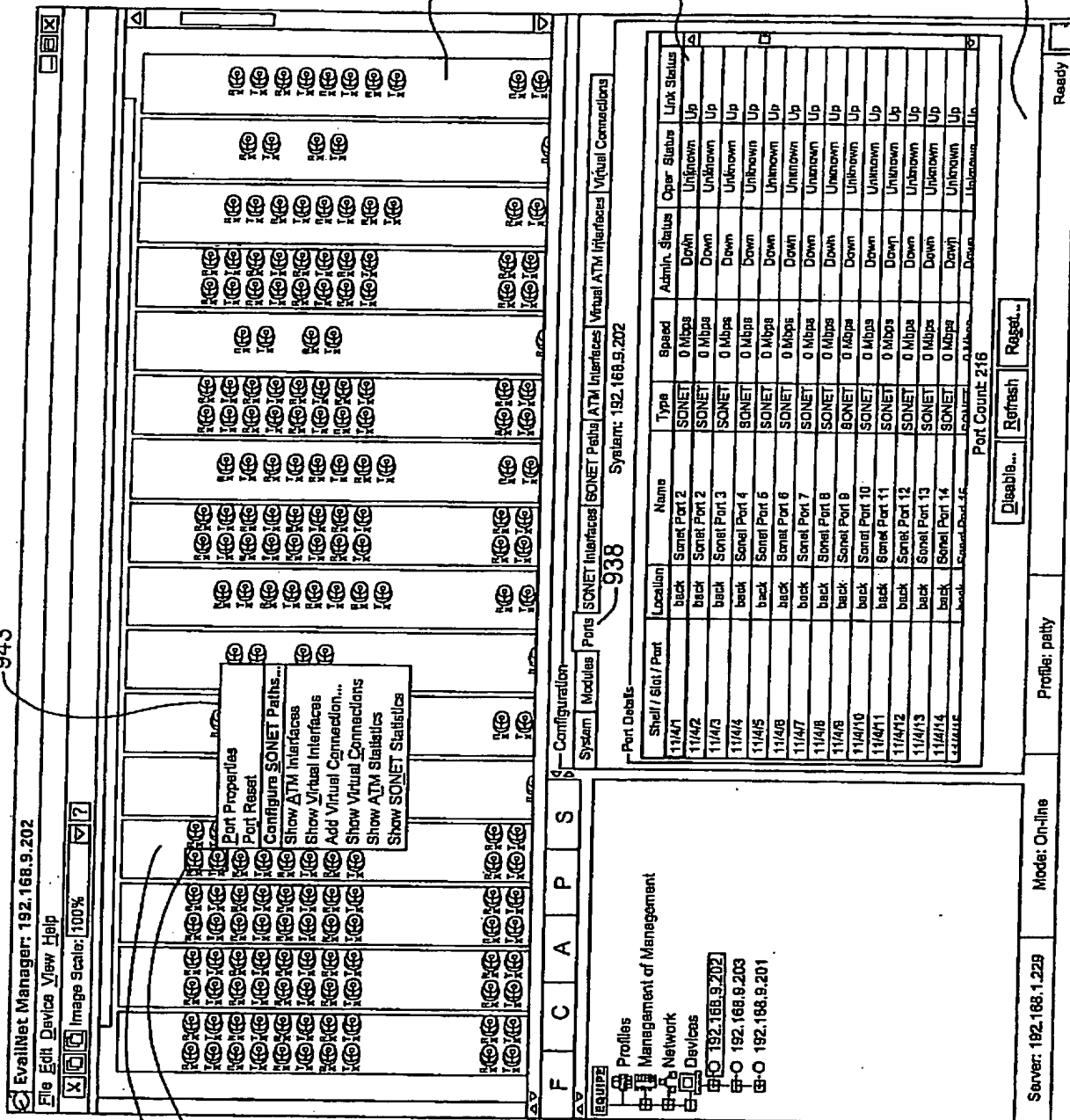
Custom Configuration

Next

Cancel

961b

FIG. 4Z



**FIG. 5A**

EvaiiNet Manager: SONET Path Configuration - 11/4/1

X

SONET Line

System: 192.168.9.202

Slot

4

Port

1

Type

OC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)

☐ Configure

☐ Custom Configuration

4

paths

STS-3c

OK

Cancel

FIG. 5B

EvailNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 4

Port 1

Type OC12

SONET Path Wizard

☒ Configure a single concatenated path (STS-12c)
 

☐ Configure

4

STS-3c

paths

☐ Custom Configuration

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne. |
|------------|--------------|-------------|----------|----------|--------|----------------|---------------|
| 11/4/1     | Path1_11/4/1 | 1           | STS-12c  | Termin.  | ATM    |                |               |

Modify

Graphical Representation

Position

Width

1

STS-12c

944f

OK

Cancel

944q

FIG. 5C

EvailNet Manager: SONET Path Configuration - 11/4/1

X

SONET Line

System: 192.168.9.202

Slot 4 Port 1 Type OC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)
 ☒ **Configure**
☐ Custom Configuration

4

▽

STS-3c

▽

paths

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne. |
|------------|--------------|-------------|----------|----------|--------|----------------|---------------|
| 11/4/1     | Path1_11/... | 1           | STS-3c   | Termin.  | ATM    |                |               |
| 11/4/1     | Path2_11/... | 4           | STS-3c   | Termin.  | ATM    |                |               |
| 11/4/1     | Path3_11/... | 7           | STS-3c   | Termin.  | ATM    |                |               |
| 11/4/1     | Path4_11/... | 10          | STS-3c   | Termin.  | ATM    |                |               |

944p

Modify

Graphical Representation

Position

Width

1

STS-3c

4

STS-3c

7

STS-3c

10

STS-3c

944f

944e

944r

OK

944q

Cancel

FIG. 5D

EvailNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot

4

Port

1

Type

OC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)
 

☒

Configure

1

paths

STS-12c

☐ Custom Configuration

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wl. | Path Ty. | Servi. | Ingress Conne. | Egress Conne |
|------------|--------------|-------------|----------|----------|--------|----------------|--------------|
| 11/4/1     | Path1_11/... | 1           | STS-12c  | Termin.  | ATM    |                |              |

Modify

Graphical Representation

Position

1

Width

STS-12c

944r

OK

Cancel

944q

944p

944t

944s

944e

944f

944

944a

944c

944g

FIG. 5E





EvallNet Manager: SONET Path Configuration - 11/4/1

SONET Line

System: 192.168.9.202

Slot

4

Port

1

Type

OC12

Path Table

| SONET Line    | Path Name    | Path Position | Path Width | Path Type | Service | Ingress Co... | Egress Co... |
|---------------|--------------|---------------|------------|-----------|---------|---------------|--------------|
| Shelf11/Sl... | Path1_11/... | 1             | 3          | 2         | 1       |               |              |
| Shelf11/Sl... | Path2_11/... | 4             | 3          | 2         | 1       |               |              |

944p

Modify

Add

Delete

Graphical Representation

Position

1

Width

STS-3C

Position

4

Width

STS-3C

945e

945f

945a

945g

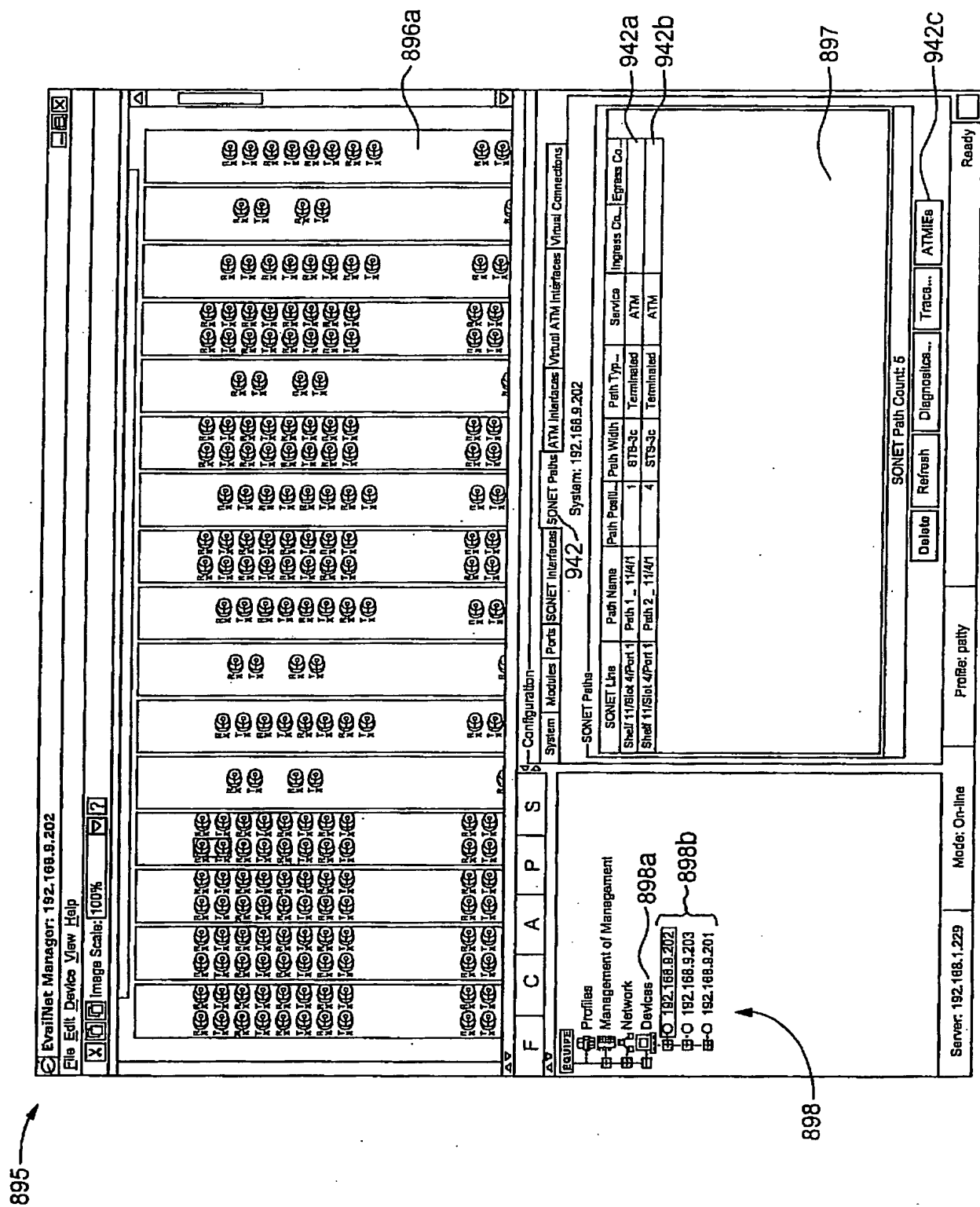
945k

945r

945n

945

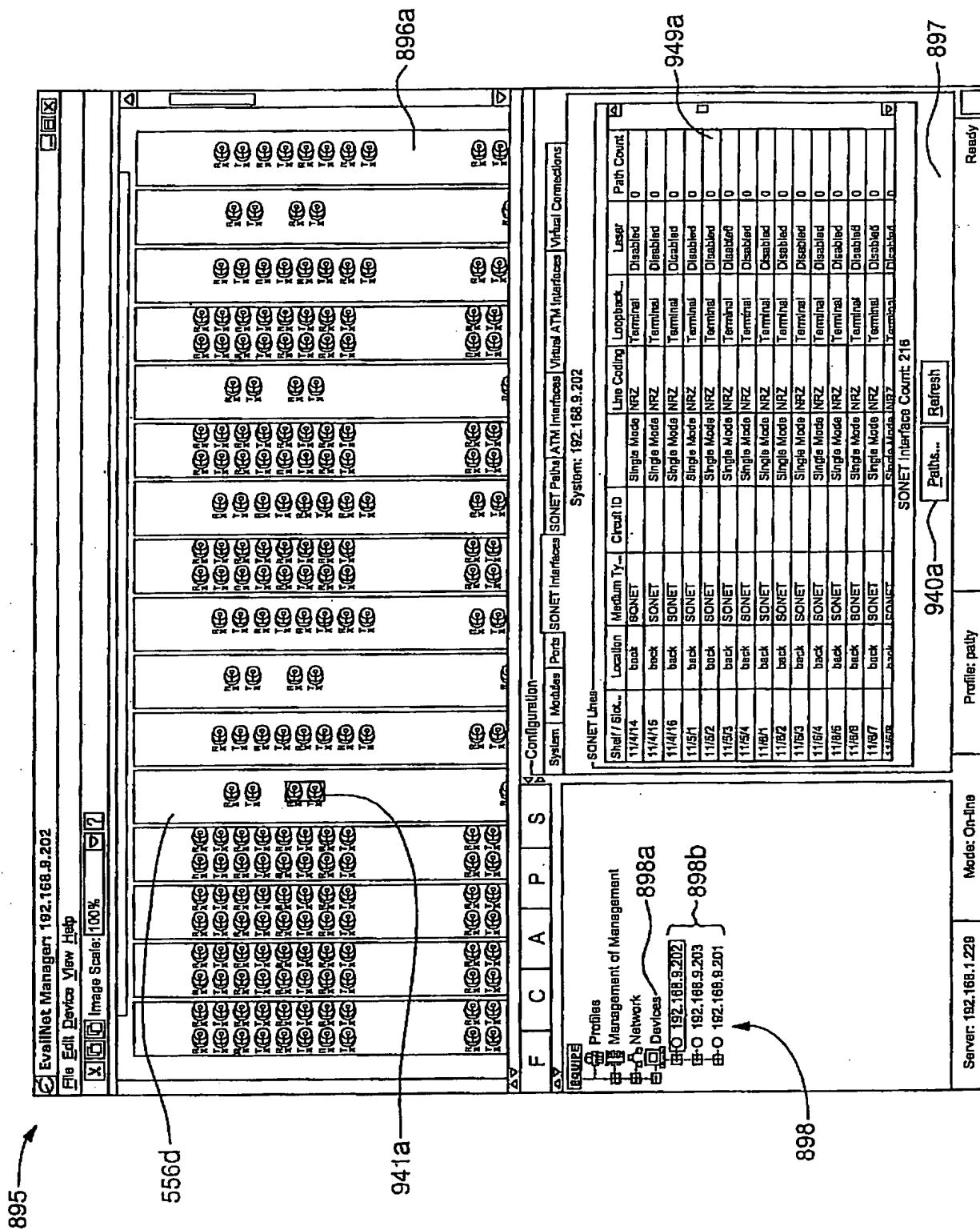
FIG. 5G



**FIG. 5H**



**FIG. 51**



**FIG. 5J**

EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot 
Port 
Type

SONET Path Wizard

☐ Configure a single concatenated path (STS-48c)
☐ Configure   
☐ Custom Configuration

FIG. 5K

EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot 5

Port 2

Type OC48

SONET Path Wizard

☒ Configure a single concatenated path (STS-48c)
 ☐ Configure
 ☐ Custom Configuration

4

▽

STS-12c

▽

paths

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne. |
|------------|--------------|-------------|----------|----------|--------|----------------|---------------|
| 11/5/2     | Path1_11/5/2 | 1           | STS-48c  | Termin.  | ATM    |                |               |

Modify

Graphical Representation

Position

Width

1

STS-48c

944p

944r

OK

Cancel

944q

FIG. 5L

EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot 5

Port 2

Type OC48

SONET Path Wizard

☐ Configure a single concatenated path (STS-48c)

☒

Configure

☐ Custom Configuration

4

▽

STS-12c

▽

paths

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wl. | Path Ty. | Servi. | Ingress Conne. | Egress Conne. |
|------------|--------------|-------------|----------|----------|--------|----------------|---------------|
| 11/5/2     | Path1_11/... | 1           | STS-12c  | Termin.  | ATM    |                |               |
| 11/5/2     | Path2_11/... | 13          | STS-12c  | Termin.  | ATM    |                |               |
| 11/5/2     | Path3_11/... | 25          | STS-12c  | Termin.  | ATM    |                |               |
| 11/5/2     | Path4_11/... | 37          | STS-12c  | Termin.  | ATM    |                |               |

Modify

OK

Cancel

Graphical Representation

Position

Width

1

13

25

37

STS-12c

STS-12c

STS-12c

STS-12c

FIG. 5M



EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot 5

Port 2

Type OC48

Graphical Representation

Position

Width

1

STS-48c

SONET Path Wizard

Configure a single concatenated path (STS-48c)

Configure

Custom Configuration

1

1

4

16

paths

STS-48c

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne. |
|------------|--------------|-------------|----------|----------|--------|----------------|---------------|
| 11/5/2     | Path1_11/... | 1           | STS-48c  | Termin.  | ATM    |                |               |

Modify

944r

OK

Cancel

FIG. 5N

EvailNet Manager: SONET Path Configuration - 11/5/2

System: 192.168.9.202

SONET Line

Slot

5

Port

2

Type

OC48

SONET Path Wizard

☐ Configure a single concatenated path (STS-48c)

☒

Configure

☐ Custom Configuration

16

▽

STS-3c

paths

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne. |
|------------|--------------|-------------|----------|----------|--------|----------------|---------------|
| 11/5/2     | Path1_11/5/2 | 1           | STS-3c   | Termin.  | ATM    |                | △             |
| 11/5/2     | Path2_11/5/2 | 4           | STS-3c   | Termin.  | ATM    |                |               |
| 11/5/2     | Path3_11/5/2 | 7           | STS-3c   | Termin.  | ATM    |                |               |
| 11/5/2     | Path4_11/5/2 | 10          | STS-3c   | Termin.  | ATM    |                |               |
| 11/5/2     | Path5_11/5/2 | 13          | STS-3c   | Termin.  | ATM    |                |               |
| 11/5/2     | Path6_11/5/2 | 16          | STS-3c   | Termin.  | ATM    |                |               |
| 11/5/2     | Path7_11/5/2 | 19          | STS-3c   | Termin.  | ATM    |                | ▽             |

Modify

OK

Cancel

Graphical Representation

| Position | Width  |
|----------|--------|
| 1        | STS-3c |
| 4        | STS-3c |
| 7        | STS-3c |
| 10       | STS-3c |
| 13       | STS-3c |
| 16       | STS-3c |
| 19       | STS-3c |
| 22       | STS-3c |
| 25       | STS-3c |
| 28       | STS-3c |
| 31       | STS-3c |
| 34       | STS-3c |
| 37       | STS-3c |
| 40       | STS-3c |
| 43       | STS-3c |
| 45       | STS-3c |

FIG. 50

EvailNet Manager: SONET Path Configuration - 11/4/1

System: 192.168.9.202

SONET Line

Slot 5 Port 2 Type OC48

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)
 ☐ Configure
 ☐ Custom Configuration

16

STS-3C

paths

Functions

Available SONET Paths

STS-3C

STS-12C

944i

Add>

<Remove

<<Clear

Allocated SONET Paths

STS-3C

STS-3C

STS-3C

STS-3C

STS-12C

944j

↑

↓

Path Table

| SONET Line | Path Name    | Path Position | Path Width | Path Type  | Service | Ingress Co... | Egress Co... |
|------------|--------------|---------------|------------|------------|---------|---------------|--------------|
| 11/5/2     | Path1_11/... | 1             | STS-3c     | Terminated | ATM     |               |              |
| 11/5/2     | Path2_11/... | 4             | STS-3c     | Terminated | ATM     |               |              |
| 11/5/2     | Path3_11/... | 7             |            | Terminated | ATM     |               |              |

Modify

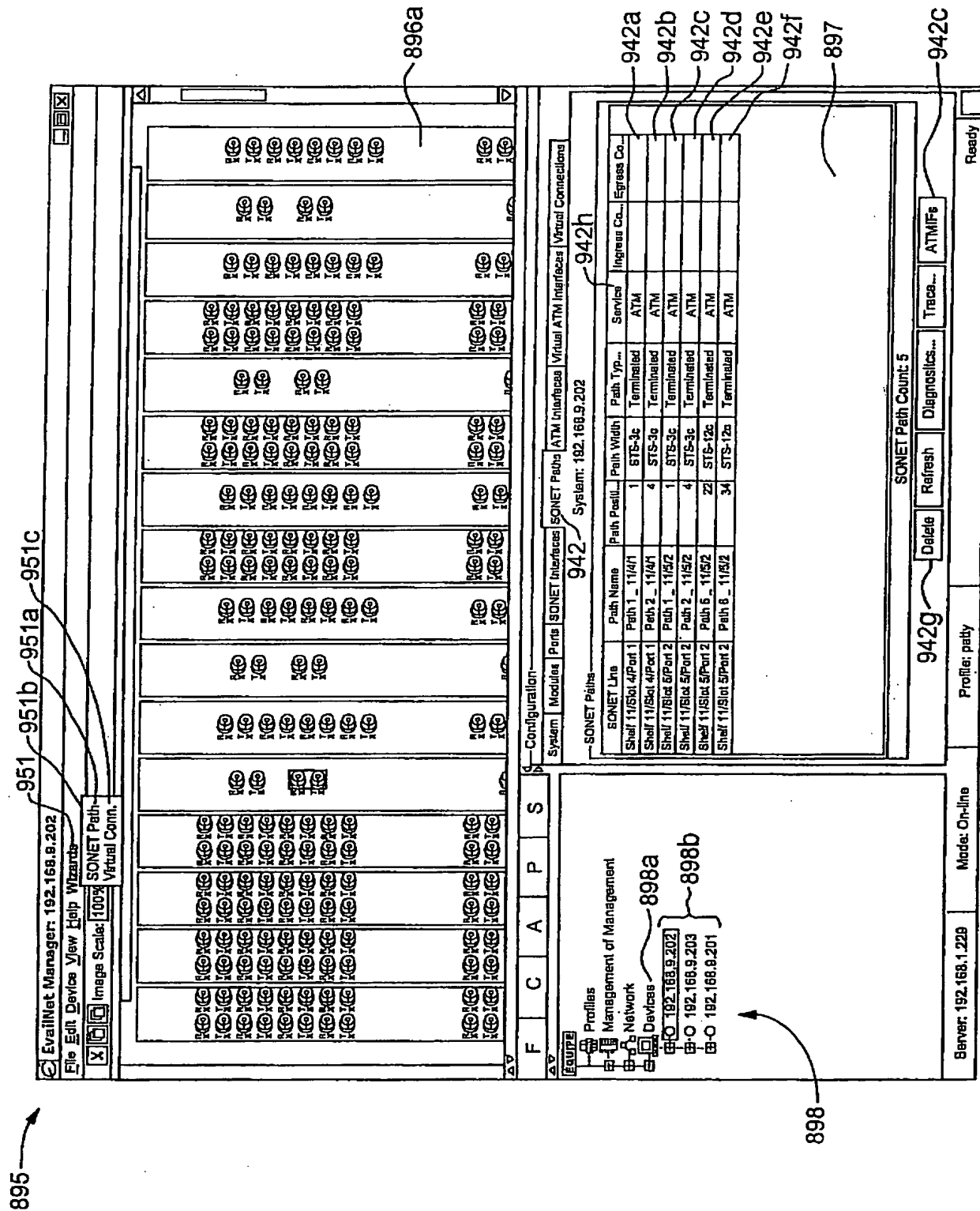
OK

Cancel

Graphical Representation

| Position | Width   |
|----------|---------|
| 1        | STS-3C  |
| 4        | STS-3C  |
| 7        | STS-3   |
| 10       | STS-3   |
| 22       | STS-12C |
| 34       | STS-12C |

FIG. 5P



**FIG. 5Q**

FIG. 5R



**FIG. 5S**

950

Add V-ATM Interface - 192.168.9.202

Shelf/Slot/Port: 11/4/1

Path Name: Path2\_11/4/1

Virtual ATM Interface Parameters

950d

Name

test1

950a

Connection Type

Direct Link

950b

Version

UNI Network 3.1

950c

Admin Status

Up

OK

Cancel

950e

FIG. 5T

895

EvailNet Manager: 192.168.9.202  
File Edit Devices View Help  
Image Scale: 100% 7

F C A P S

Configuration  
System Modules Ports SONET Interfaces SONY Path ATM Interfaces Virtual ATM Interfaces

System: 192.168.9.202

Shelf 11  
Slot 1  
Slot 2  
Slot 3  
Slot 4  
Port 1  
Port 2  
Port 3  
Port 4  
Port 5  
Port 6  
Port 7  
Port 8  
Port 9

ATM-Path1\_11/4/  
ATM-Path2\_11/4/

947a

947b

947c

| Name  | Type        | Version         | Admin | Status | PVC Count | Sign |
|-------|-------------|-----------------|-------|--------|-----------|------|
| Test1 | Direct Link | UNI Network 3.1 | Up    | 0      | 0         | Eng  |

<<back Add... Delete... Refresh Virtual Connections>>

Server: 192.168.1.229 Mode: On-line Profiler: patty Ready

FIG. 5U



895

EvalNet Manager: 192.168.9.202  
File Edit Device View Help  
Image Scale: 100%

556d

941a

947c

Port Properties... 943  
Port Reset...  
Configure SONET Paths...  
Show ATM Interfaces  
Show Virtual Interfaces  
Add Virtual Connection...  
Show Virtual Connections  
Show ATM Statistics  
Show SONET Statistics

947

947a

947b

947d

Profiles  
Management of Management  
Network  
Devices  
192.168.9.203  
192.168.9.201  
192.168.9.202

System: 192.168.9.202  
192.168.9.202  
Shell 11  
Slot 1  
Slot 2  
Slot 3  
Slot 4  
Slot 5  
Port 1  
Port 2  
ATM-Path1\_11/  
ATM-Path2\_11/  
ATM-Path5\_11/  
ATM-Path5\_11/  
Port 3  
Port 4  
Slot 6  
Slot 7  
Slot 8  
Slot 9

System: 192.168.9.202  
Virtual ATM Interfaces  
SONET Interfaces  
ATM Interfaces  
Virtual Connections

| Name  | Type        | Version         | Admin. Status | PVC Count | Sign |
|-------|-------------|-----------------|---------------|-----------|------|
| test3 | Direct Unit | UNI Network 3.1 | Up            | 0         | 0    |

947

947b

947d

Server: 192.168.1.229  
Mode: On-line  
Profile: pathy  
Ready

FIG. 5V

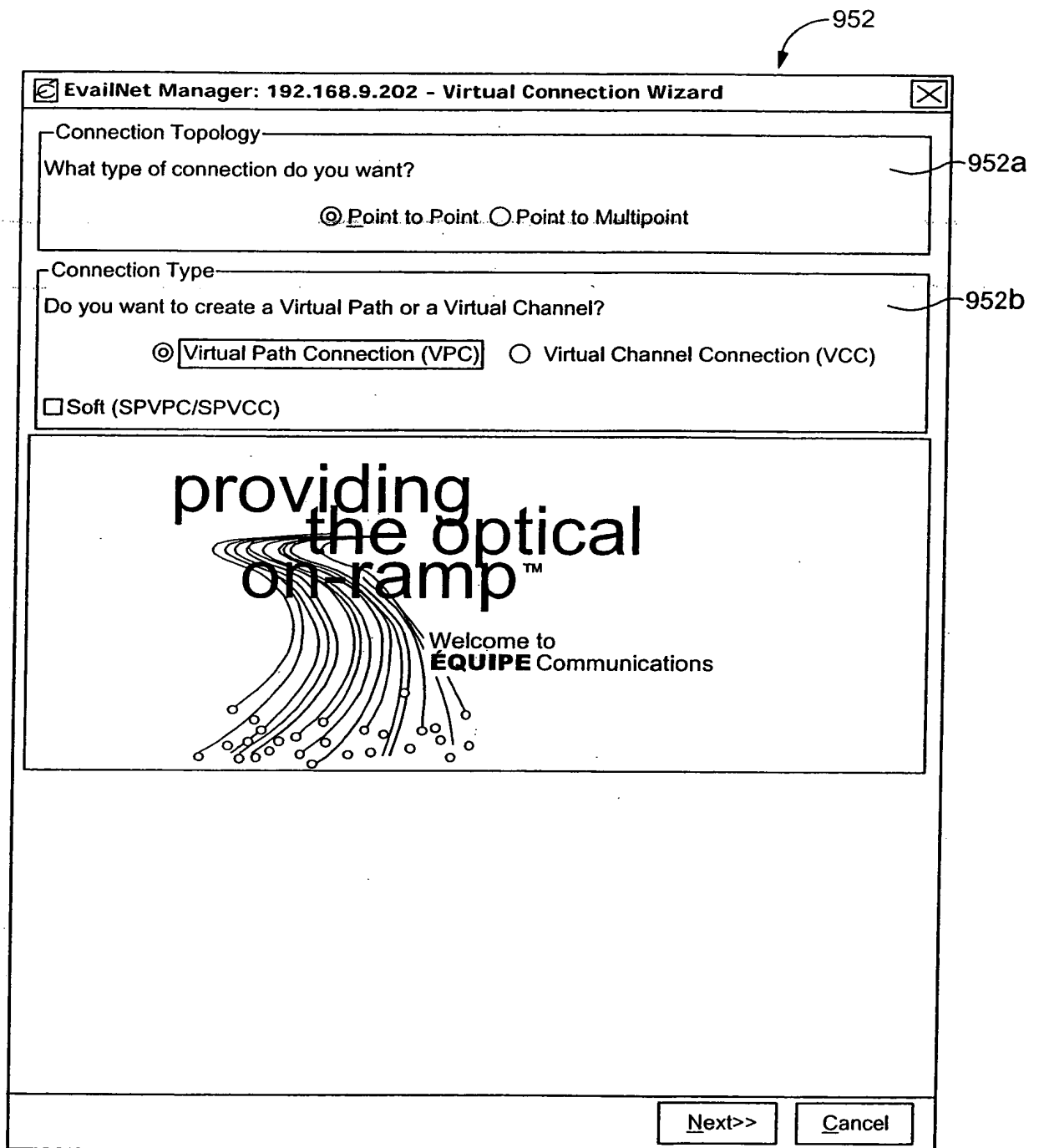


FIG. 5W

953

Source: 192.168.9.202
Destination: 192.168.9.202

953a End Point 1

- Slot 4
  - Port 1
    - ATM-Path1\_11/4/1
    - ATM-Path2\_11/4/1
      - test1
      - test2
  - Port 2
  - Port 3
  - Port 4

953b

End Point 1

- Slot 3
  - Port 1
  - Port 2
    - ATM-Path1\_11/5/2
      - test3
    - ATM-Path2\_11/5/2
    - ATM-Path5\_11/5/2
- Slot 4
- Slot 5
  - Port 1
  - Port 2

953c

953d

953e Connection Parameters

Connection Name:

Admin Status:  953h

Customer Name:

953f End Point 1 Parameters:

VPI:  ☒ Use Any VPI Value 953k

VCI:  ☐ Use Any VCI Value 953o

Transmit Traffic Descriptor:

Receive Traffic Descriptor:   953q

☐ Use the same Traffic Descriptor for both Transmit and Receive

953g End Point 2 Parameters:

VPI:  ☒ Use Any VPI Value 953l

VCI:  ☐ Use Any VCI Value 953p

Transmit Traffic Descriptor:

Receive Traffic Descriptor:   953r

☐ Use the same Traffic Descriptor for both Transmit and Receive 953t

FIG. 5X

956

NEW TRAFFIC  
DESCRIPTOR

NAME:

QoS CLASS:

▼

TYPE:

▼

OK

CANCEL

FIG. 5Y



FIG. 5Z

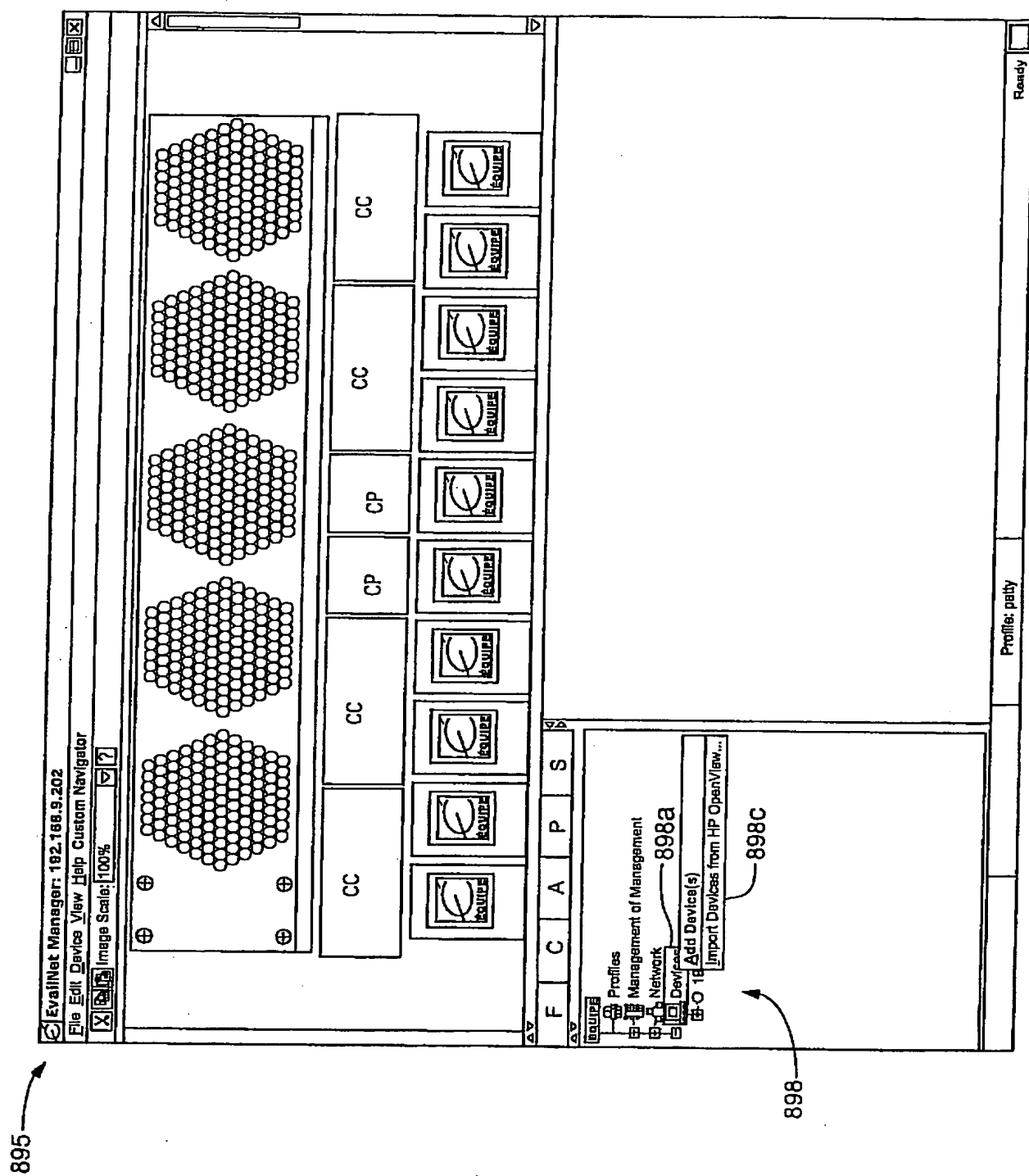


FIG. 6A

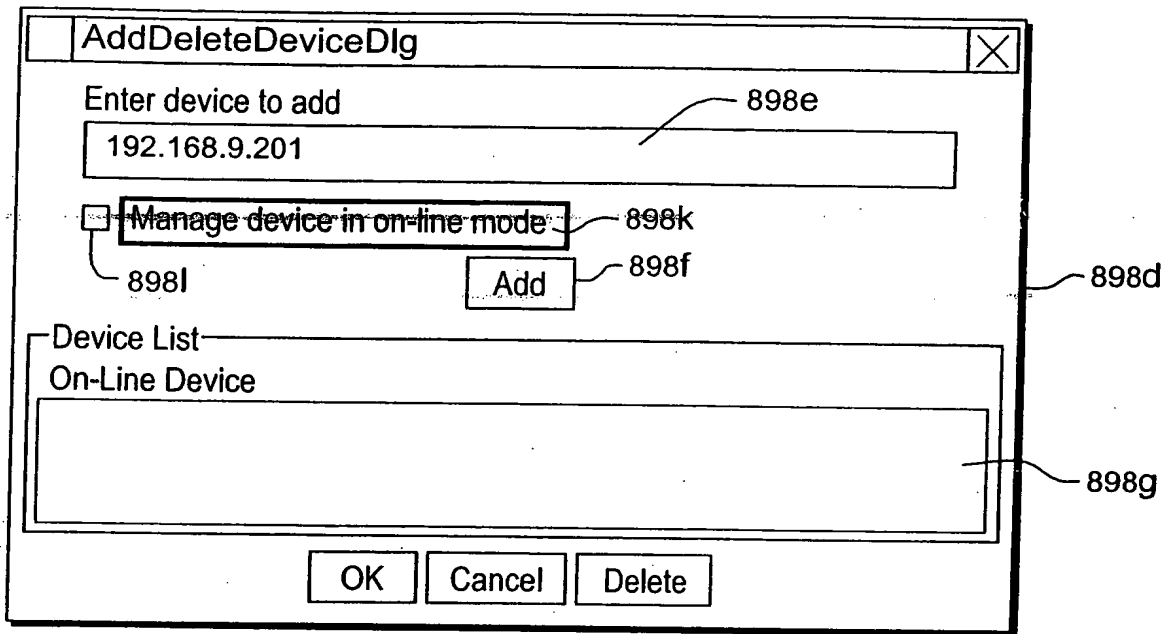


FIG. 6B

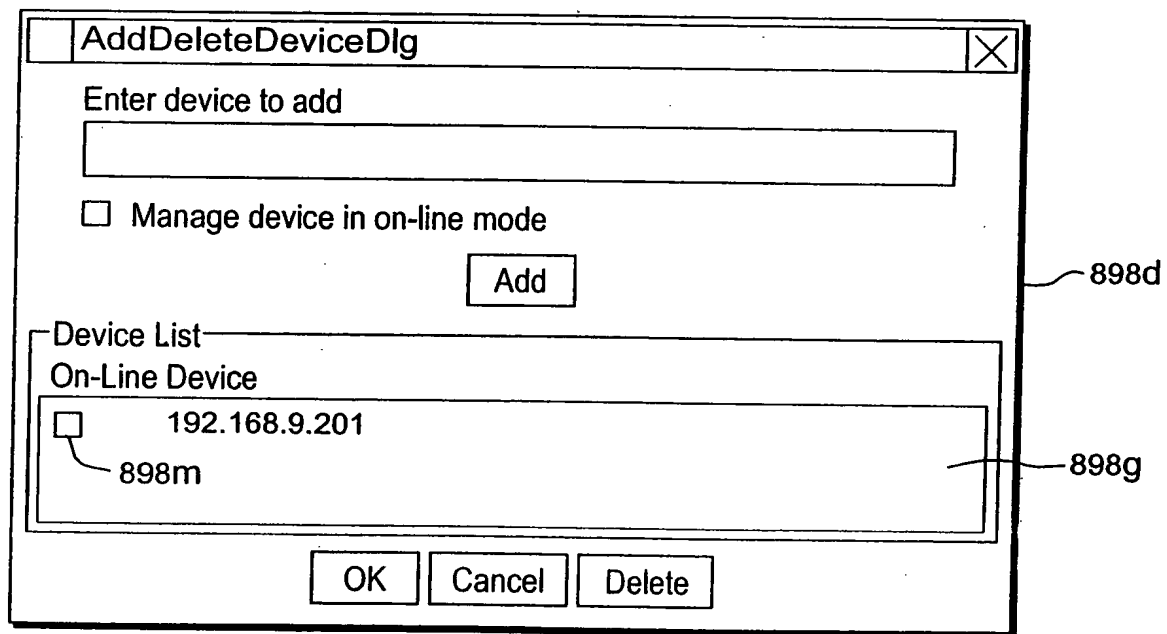


FIG. 6C

895

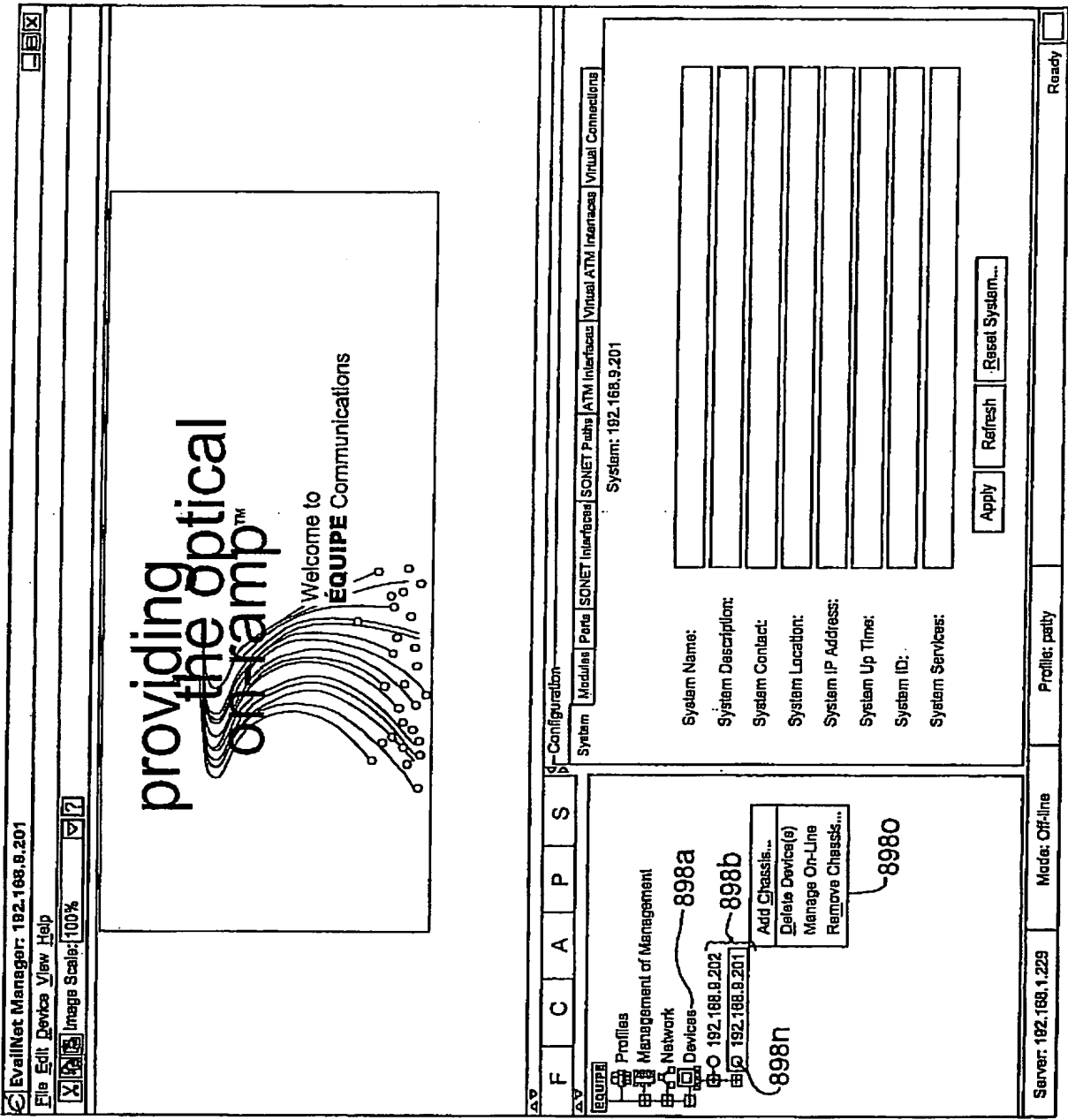


FIG. 6D



895

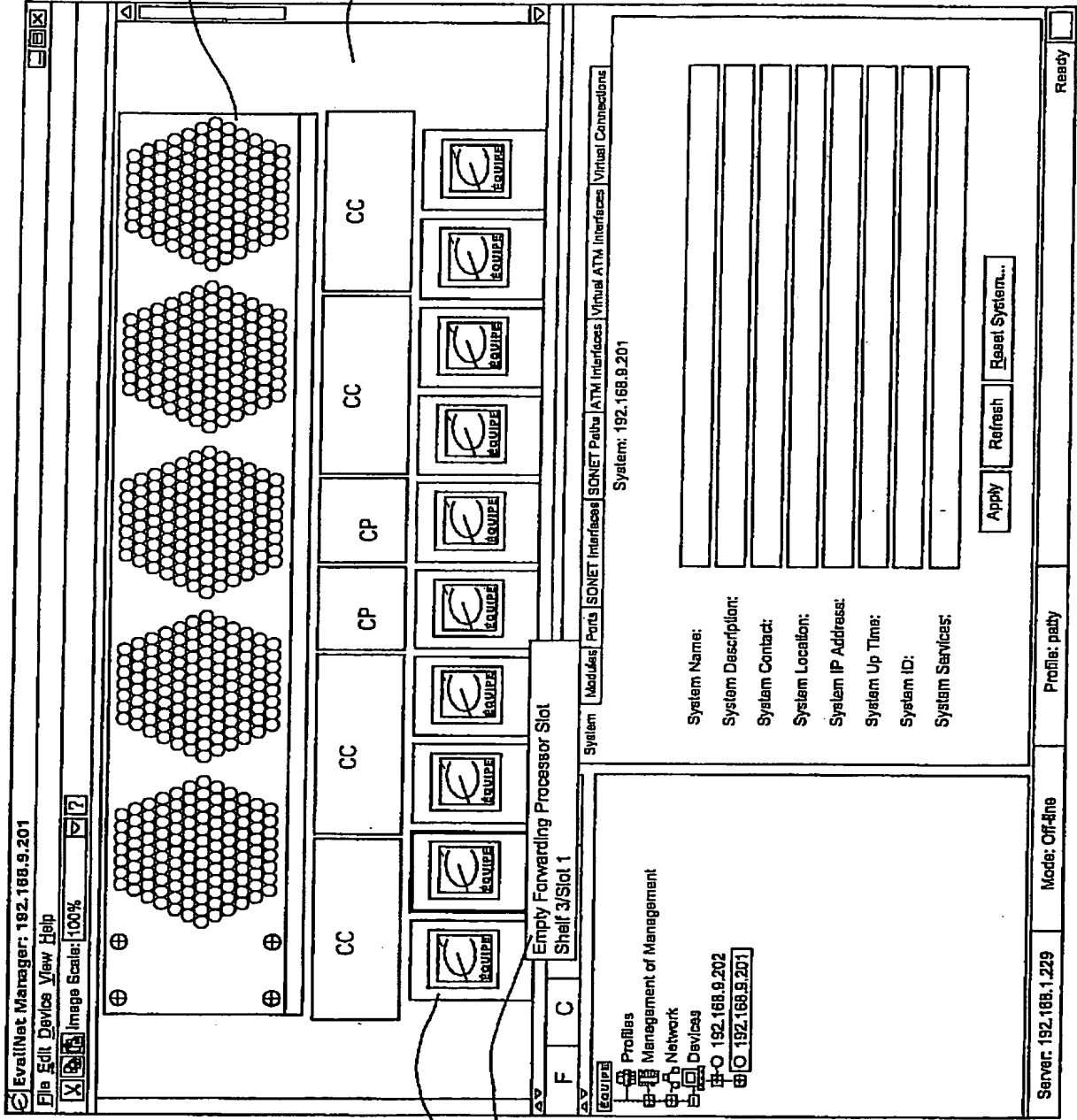


FIG. 6E

895

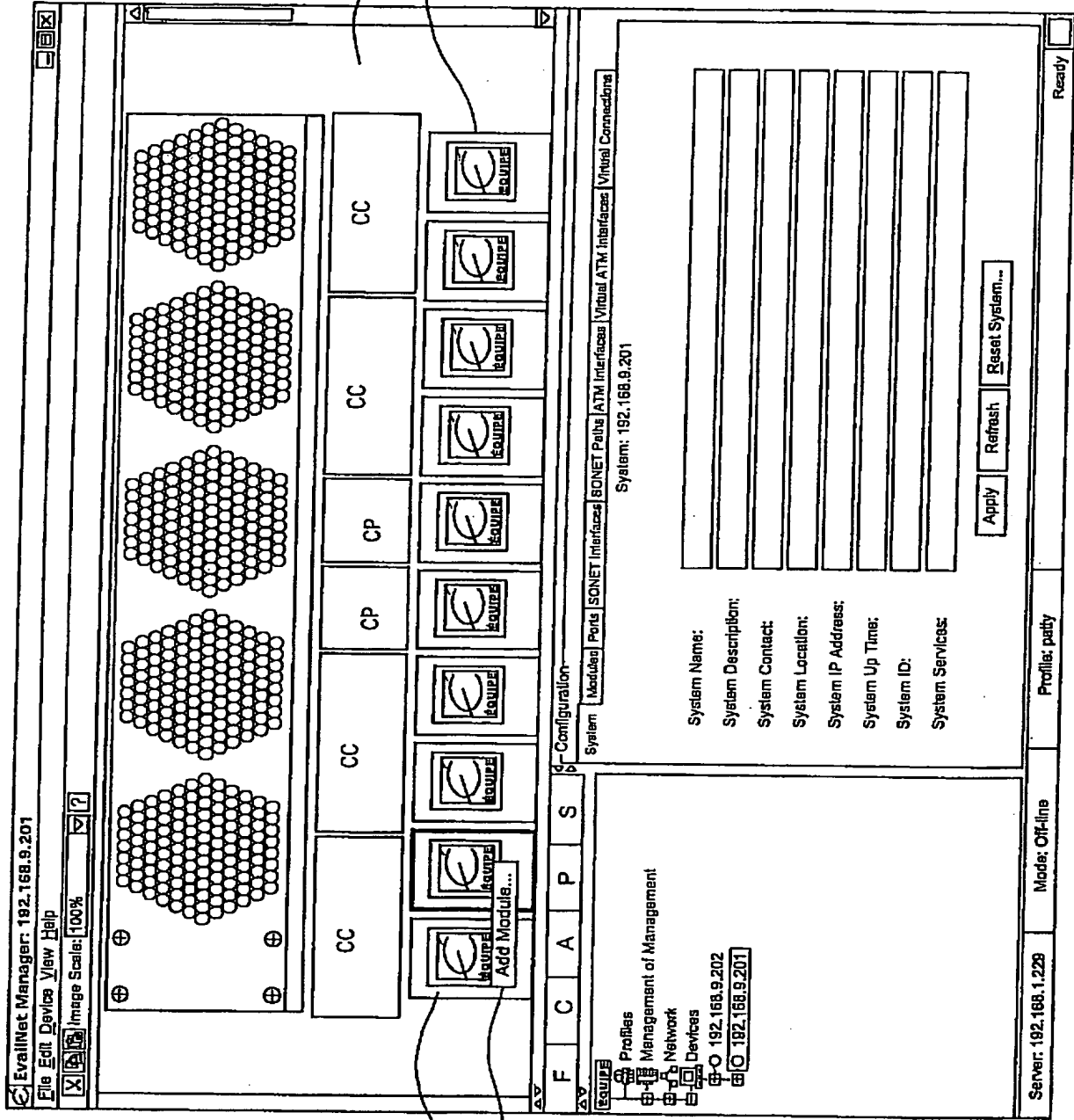
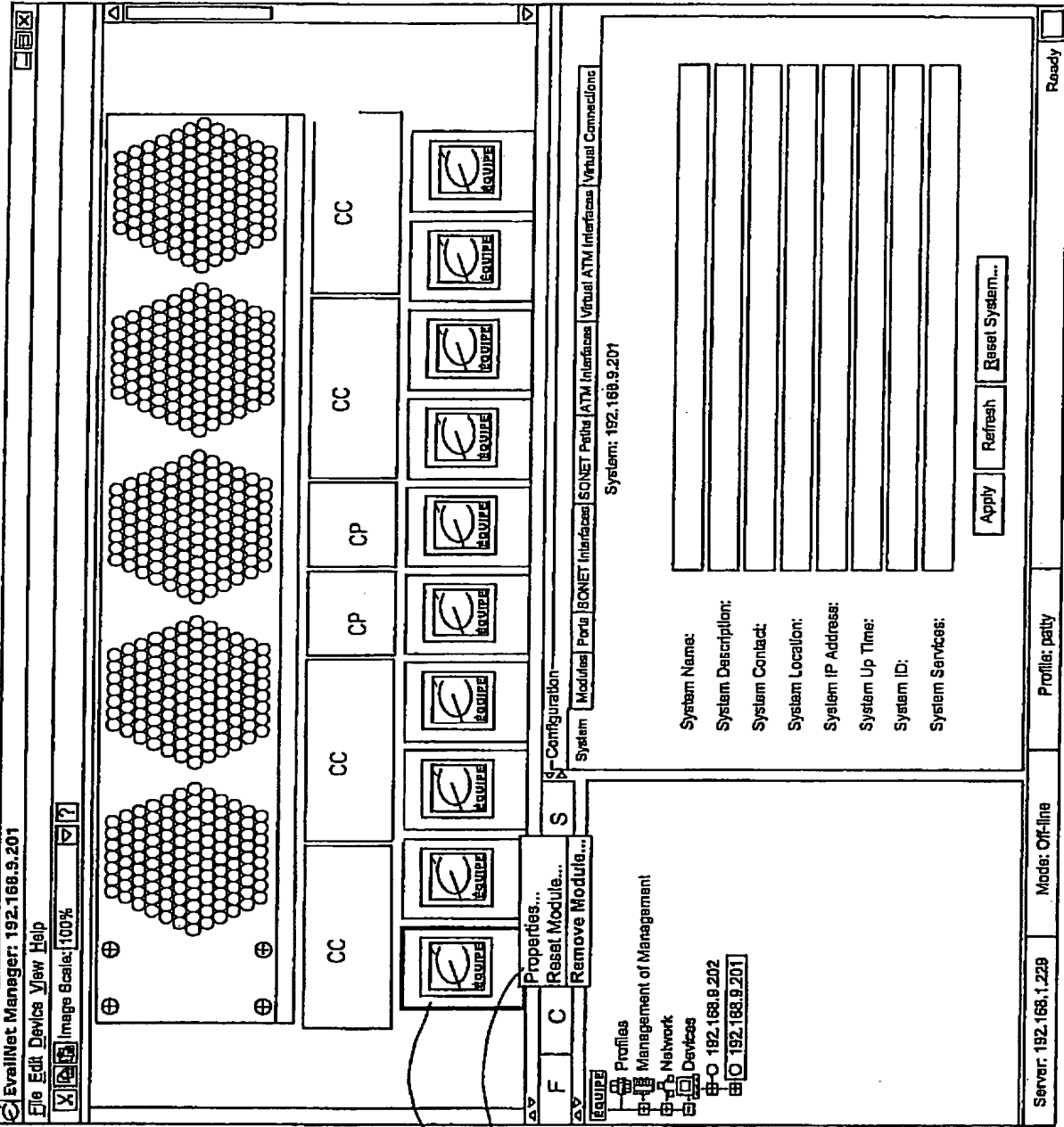


FIG. 6F

895

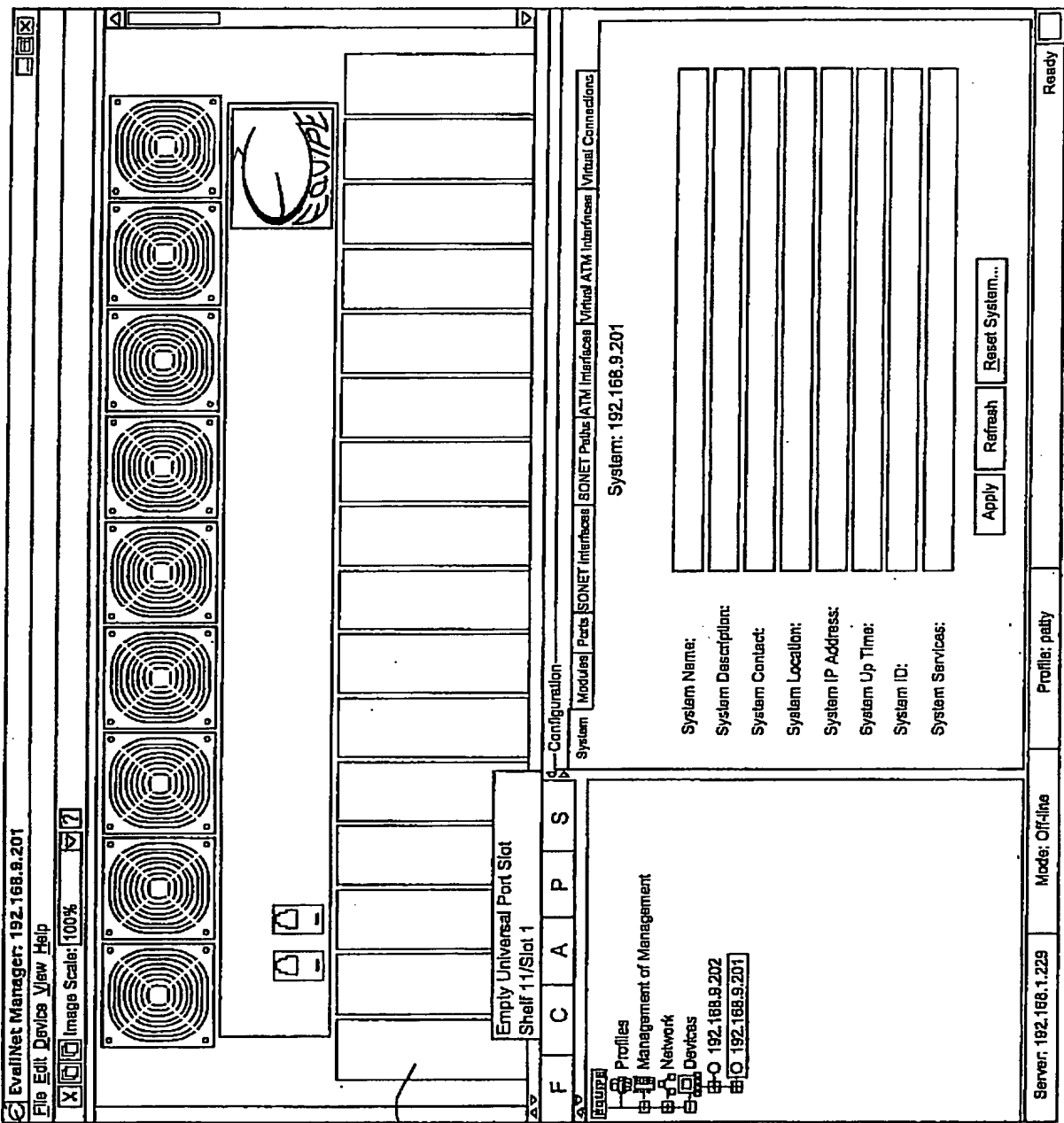


546a

896t

FIG. 6G

895



896f

FIG. 6H

895

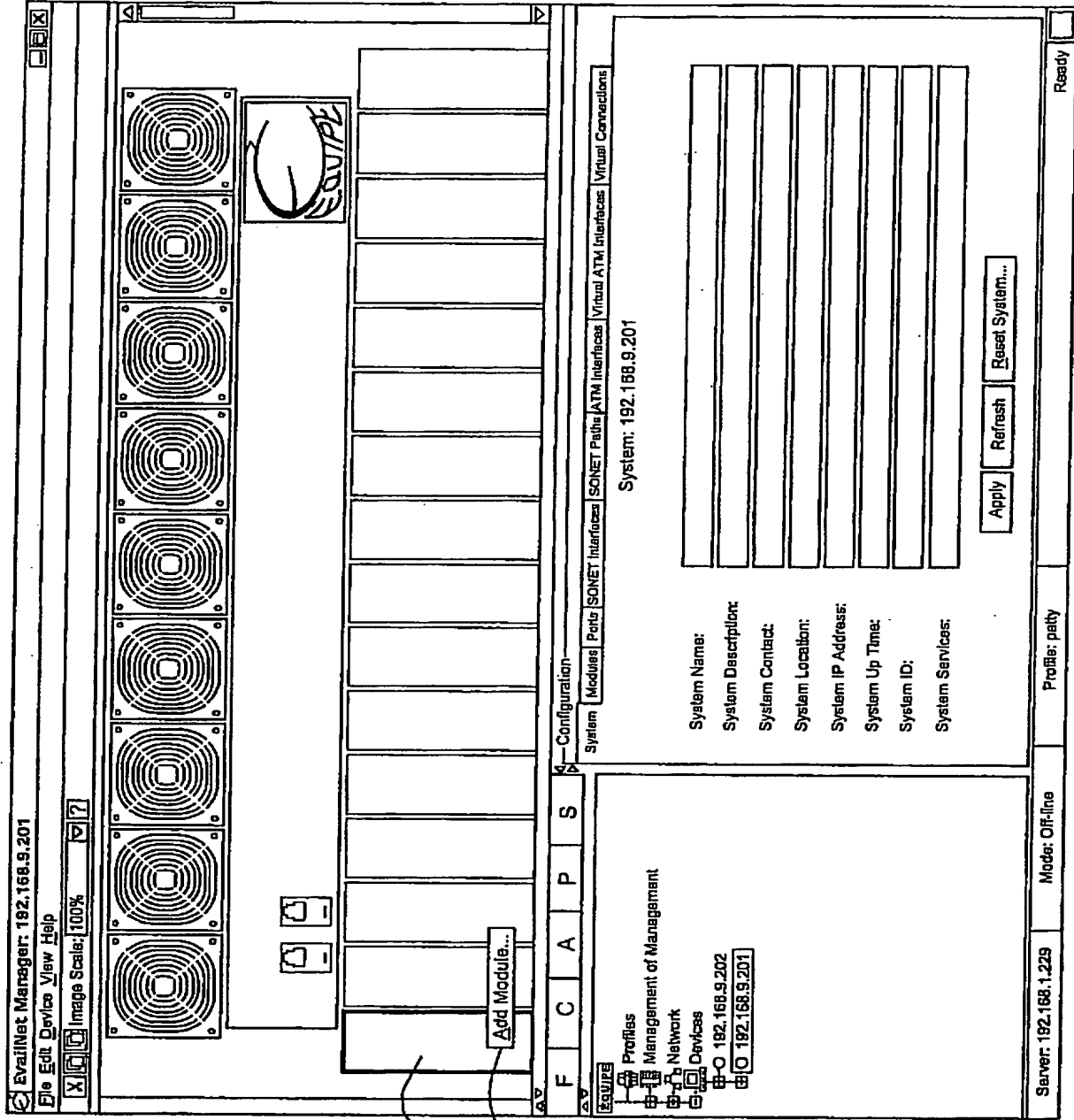


FIG. 61

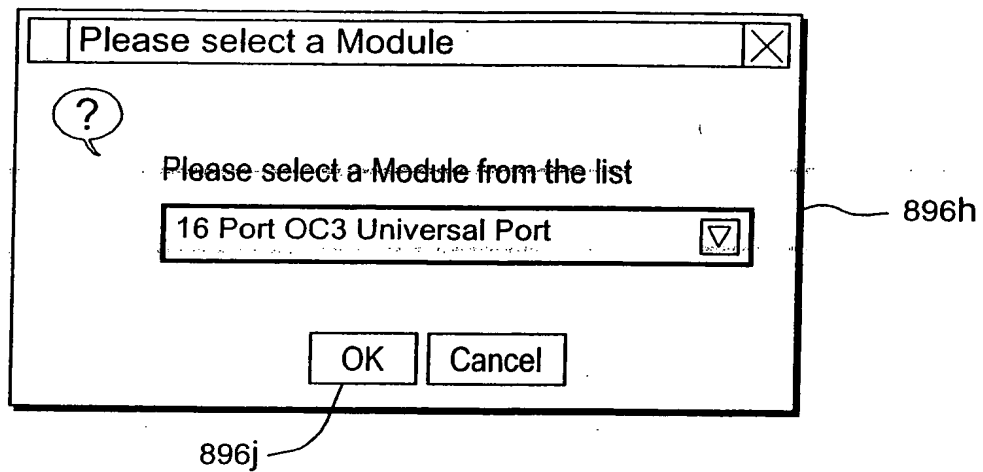


FIG. 6J

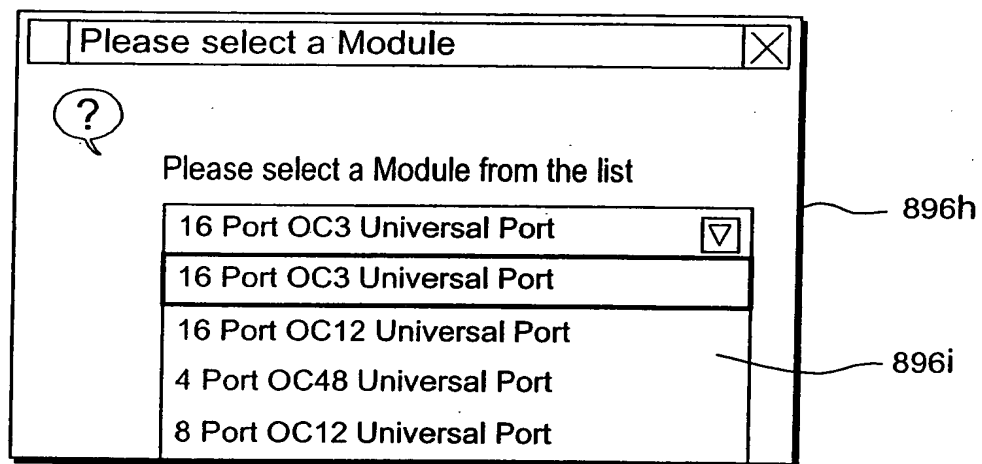


FIG. 6K

895

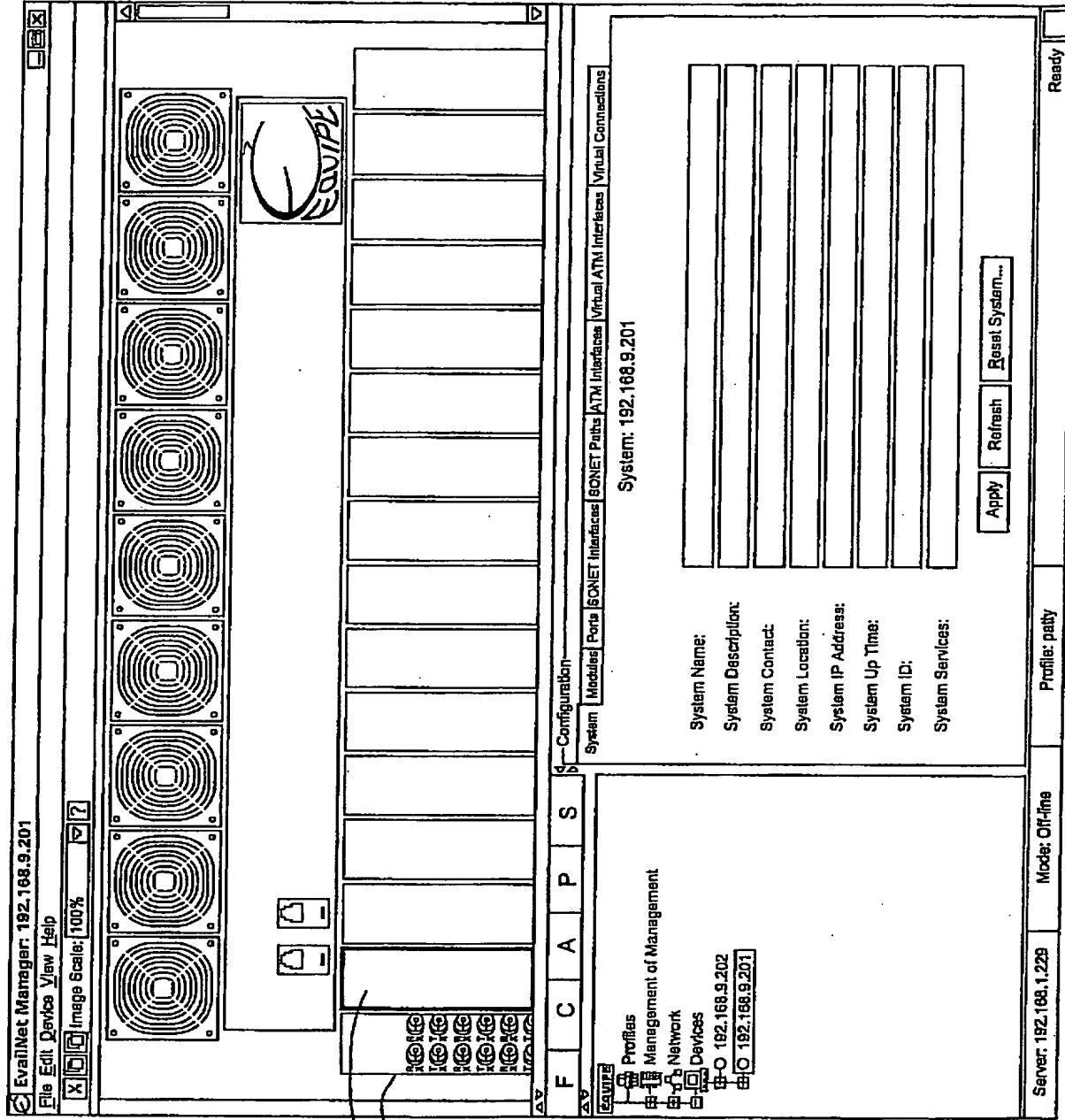


FIG. 6L

895

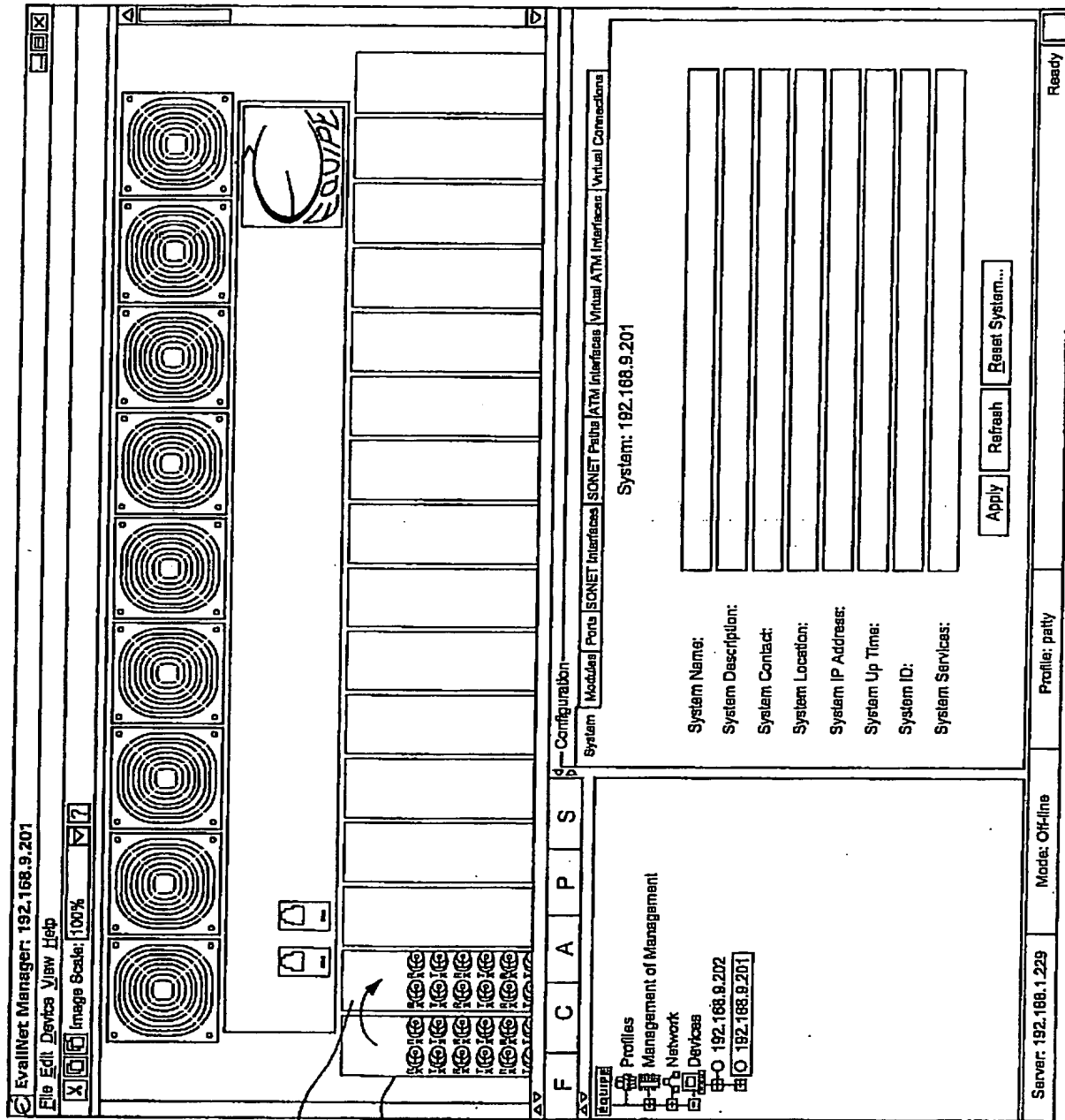


FIG. 6M



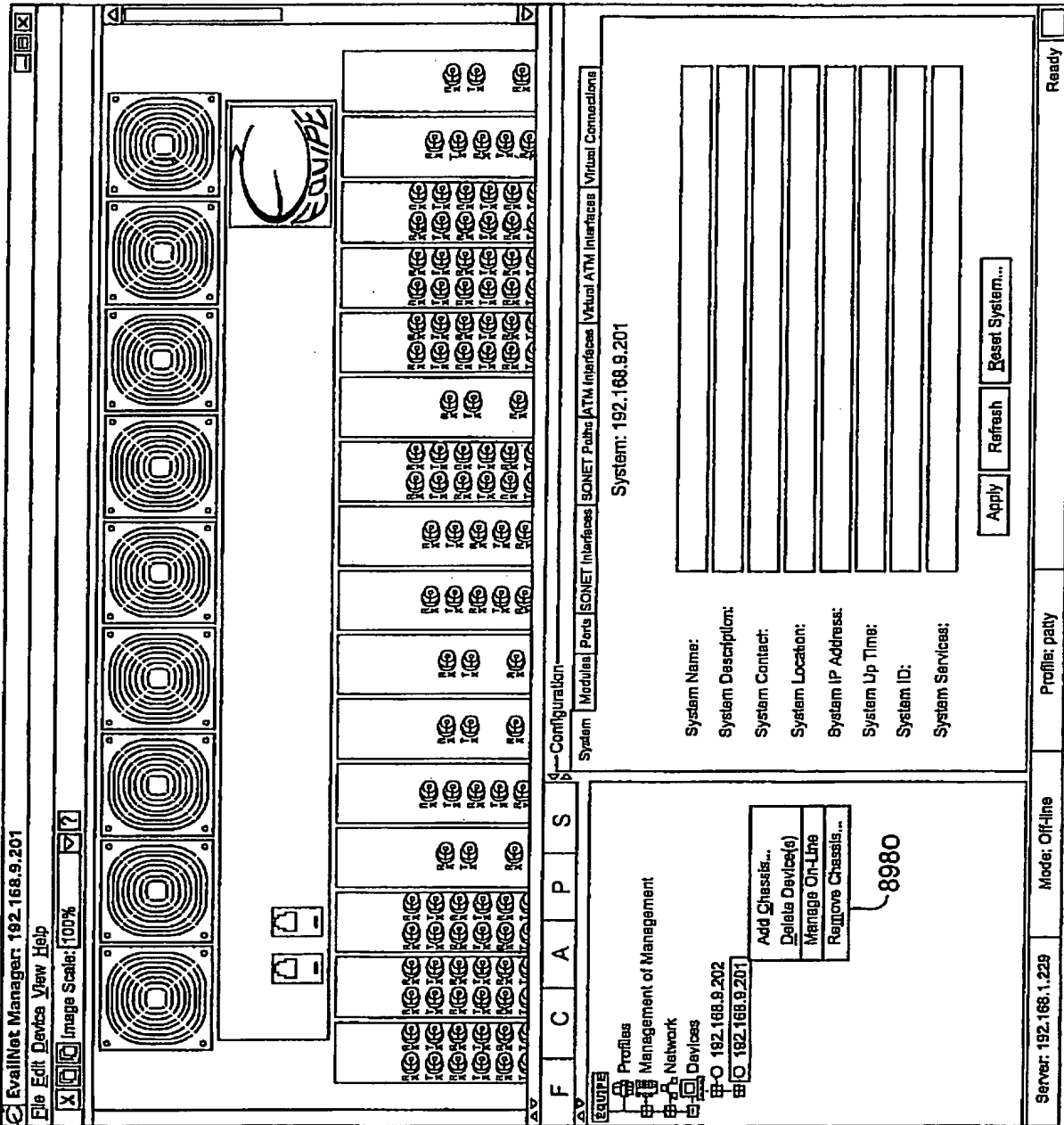


FIG. 6N

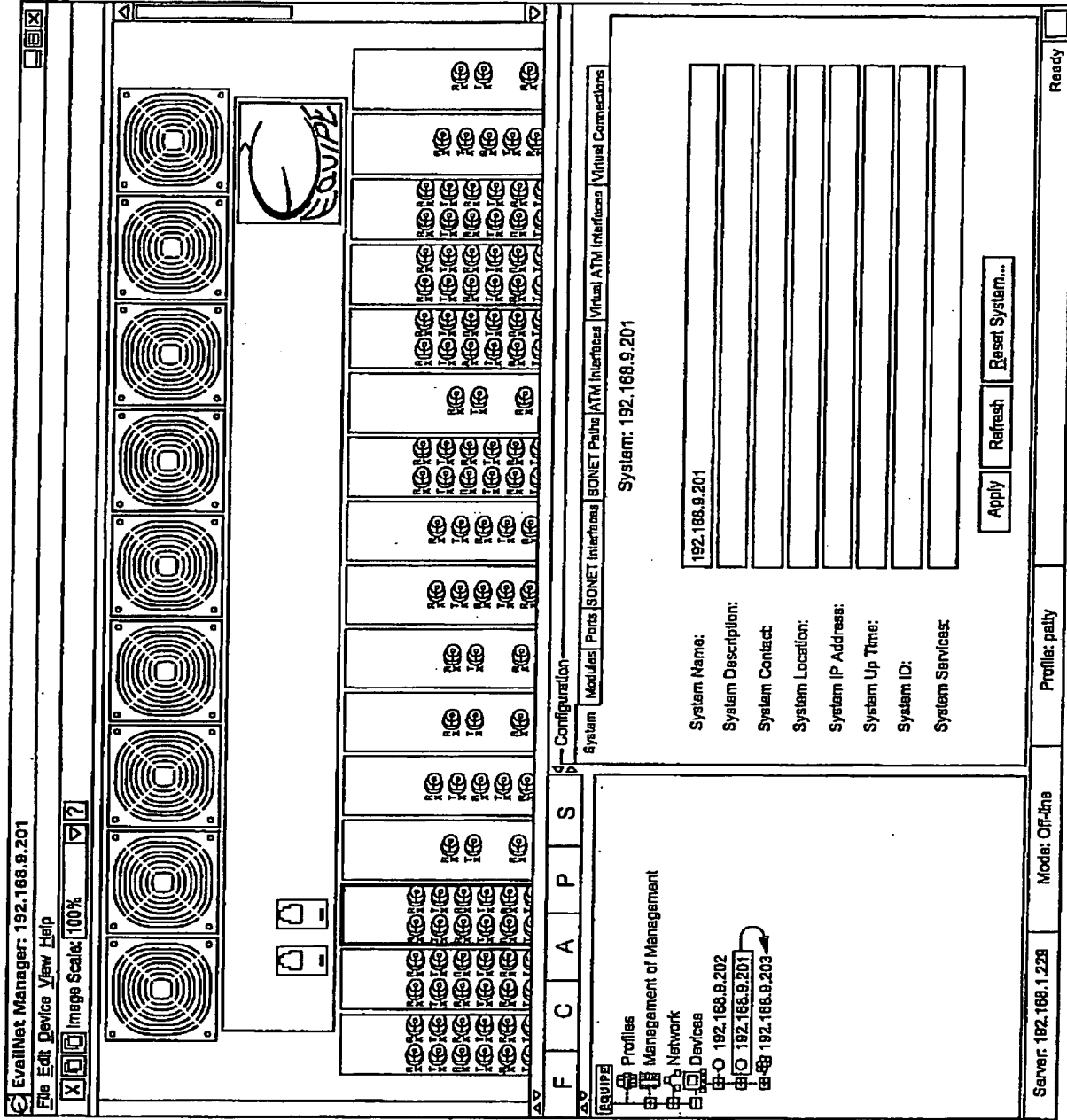


FIG. 60

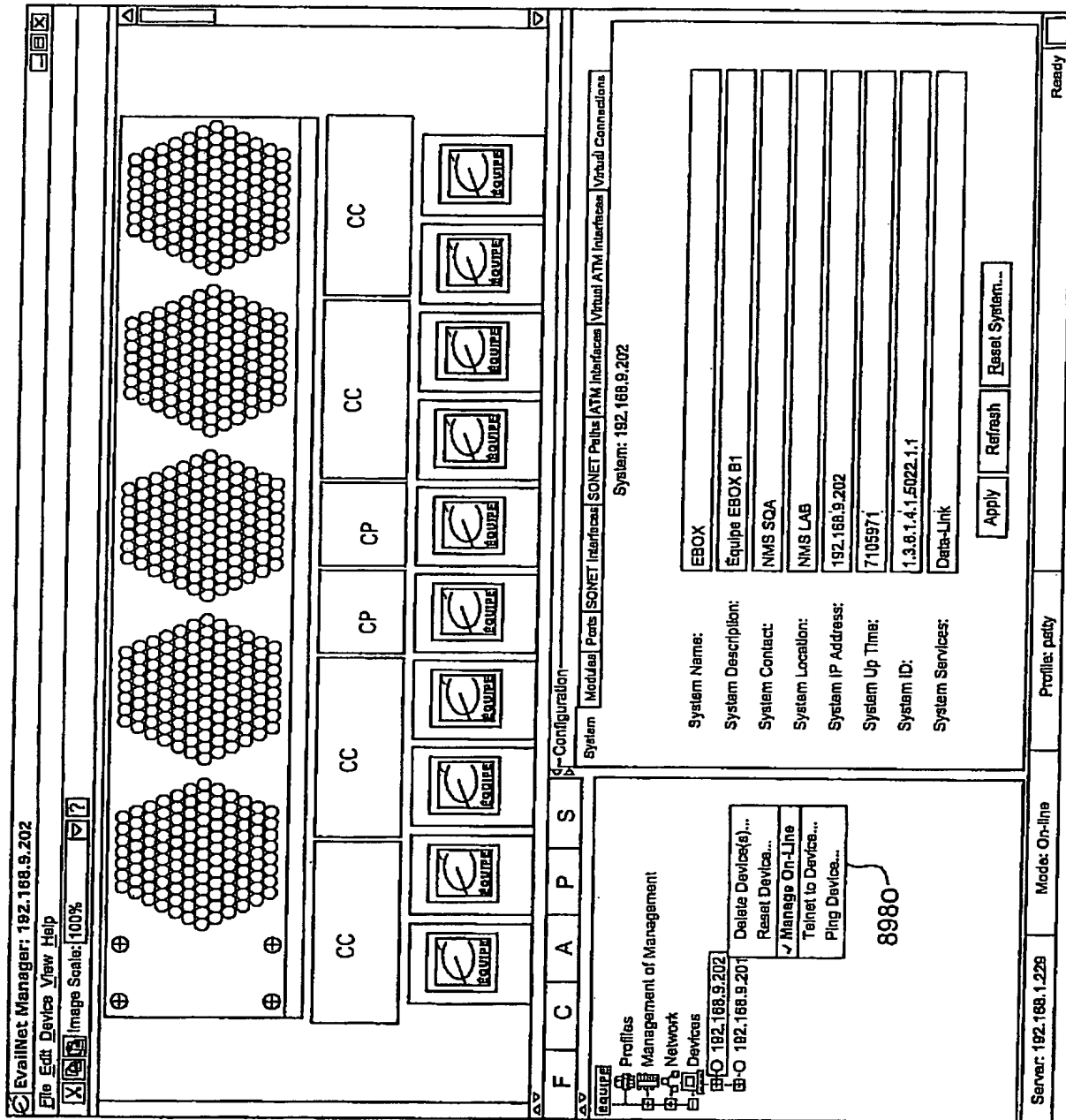


FIG. 6P

895

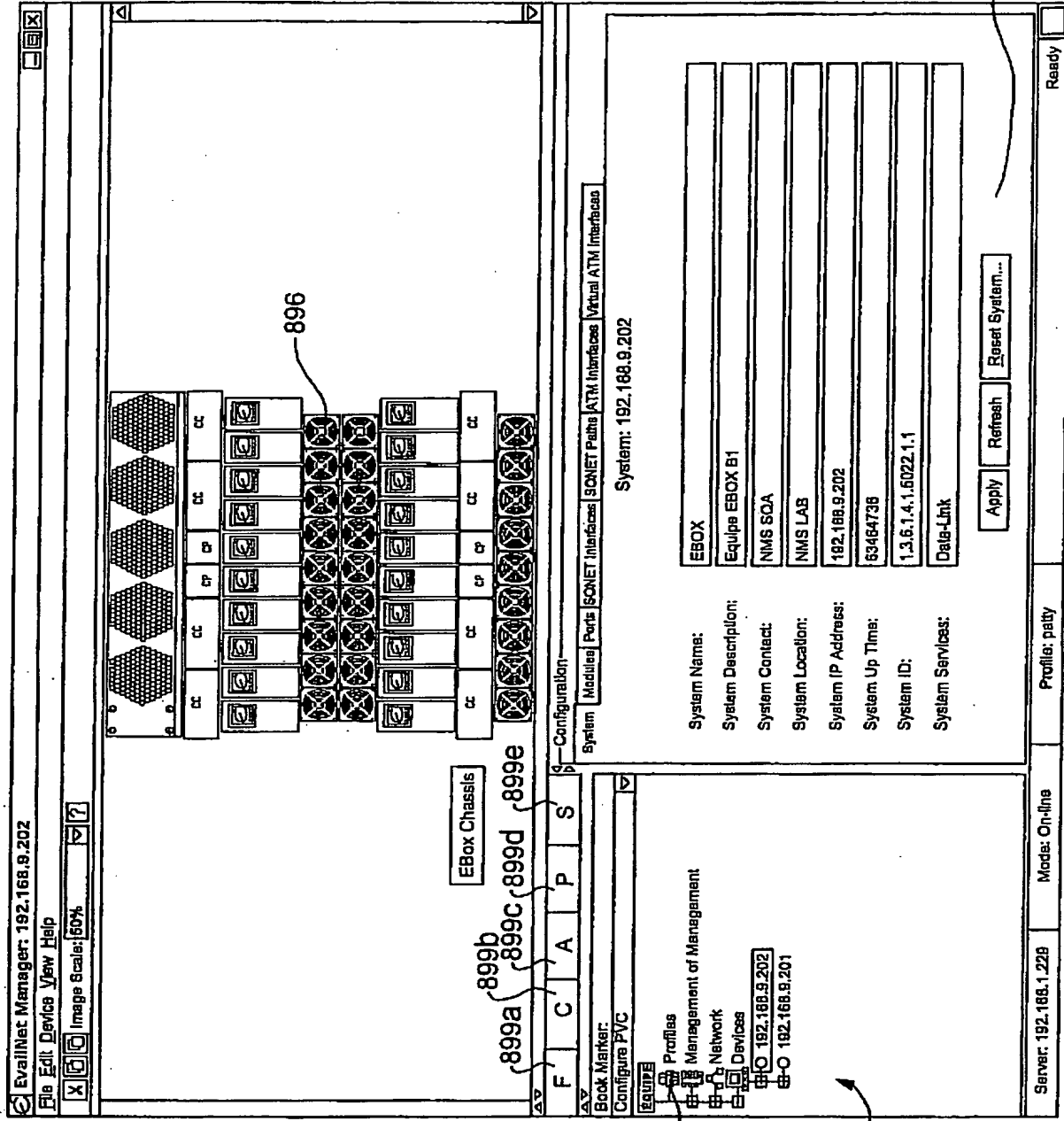


FIG. 7A

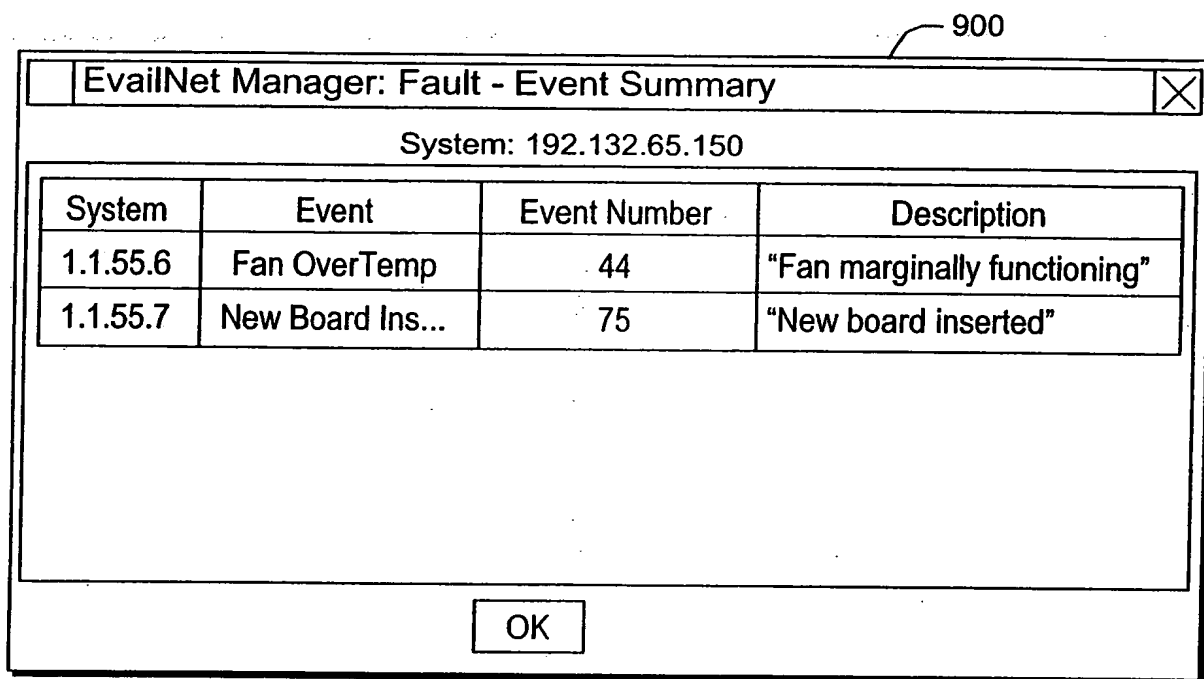
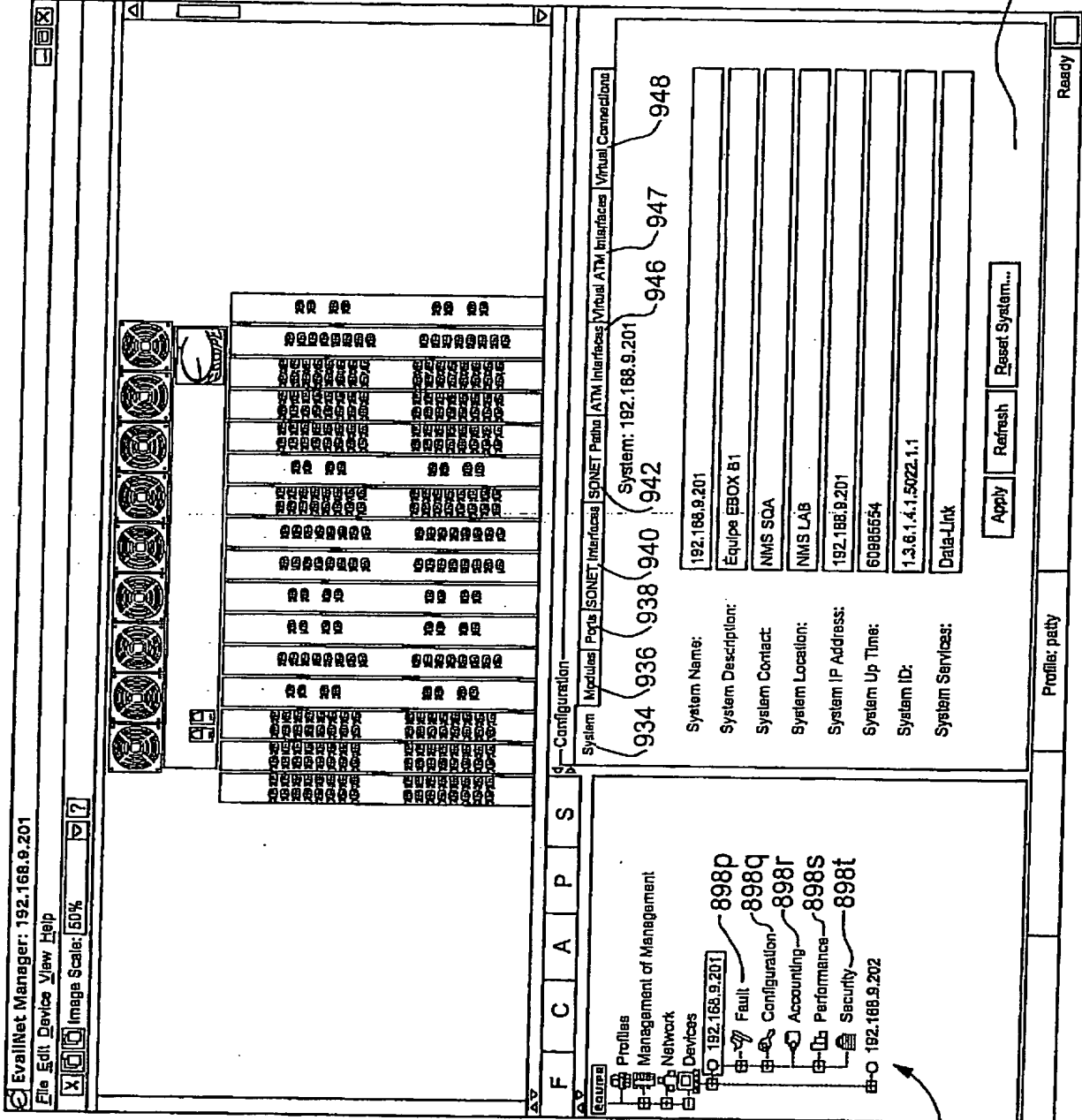


FIG. 7B

|   |   |             |             |             |             |             |             |             |             |   |   |   |   |   |
|---|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---|---|---|---|
| <div style="display: flex; justify-content: space-between; align-items: center;"> <span>EvalNet Manager: 192.168.8.202</span> <span>File Edit Device View Help</span> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Image Scale: 50%</span> <span>?</span> </div>  |   |             |             |             |             |             |             |             |             |   |   |   |   |   |
| <div style="border: 1px solid black; padding: 5px;">             Security           </div> <div style="border: 1px solid black; padding: 5px;">             SHMP Configuration Changes<br/>             System: 192.168.8.202<br/>             SHMP Community Strings<br/>             READ Community:<br/> <div style="border: 1px solid black; padding: 2px;">public</div>             READ/WRITE Community:<br/> <div style="border: 1px solid black; padding: 2px;">public</div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">             Command Line Interpreter (CLI)<br/><br/>             Administrator Password:<br/> <div style="border: 1px solid black; padding: 2px;">root</div> </div> <div style="text-align: right; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px 10px;">Apply</div> </div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><u>899a</u></td> <td style="width: 20%;"><u>899b</u></td> <td style="width: 20%;"><u>899c</u></td> <td style="width: 20%;"><u>899d</u></td> <td style="width: 20%;"><u>899e</u></td> </tr> <tr> <td>F</td> <td>C</td> <td>A</td> <td>P</td> <td>S</td> </tr> </table> |             |             |             | <u>899a</u> | <u>899b</u> | <u>899c</u> | <u>899d</u> | <u>899e</u> | F | C | A | P | S |
| <u>899a</u>   | <u>899b</u>   | <u>899c</u> | <u>899d</u> | <u>899e</u> |             |             |             |             |             |   |   |   |   |   |
| F   | C   | A           | P           | S           |             |             |             |             |             |   |   |   |   |   |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Book Marks</span> <span>Configure PVC</span> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Profiles</span> <span>Management of Management</span> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Server: 192.168.8.202</span> <span>Mode: On-line</span> <span>Profile:</span> </div>   |   |             |             |             |             |             |             |             |             |   |   |   |   |   |

FIG. 7C

895



898

897

FIG. 7D



FIG. 7E





FIG. 7F

**FIG. 7G**

**System Configuration Table:**

| System | Modem                | Port | SONET Interface | SPINET Path | ATM Interface | Virtual ATM Interface | Virtual Connections |
|--------|----------------------|------|-----------------|-------------|---------------|-----------------------|---------------------|
| System | 192.168.9.201        | 934  | 936             | 938         | 940           | 942                   | 946 947 948         |
| Equip  | 192.168.9.201        |      |                 |             |               |                       |                     |
| Equip  | Equip EBOX 91        |      |                 |             |               |                       |                     |
| Equip  | NMS SQA              |      |                 |             |               |                       |                     |
| Equip  | NMS LAB              |      |                 |             |               |                       |                     |
| Equip  | 192.168.9.201        |      |                 |             |               |                       |                     |
| Equip  | 60985554             |      |                 |             |               |                       |                     |
| Equip  | 1.3.6.1.4.1.5022.1.1 |      |                 |             |               |                       |                     |
| Equip  | Data-Link            |      |                 |             |               |                       |                     |

FIG. 7H





FIG. 7J

FIG. 7K

895

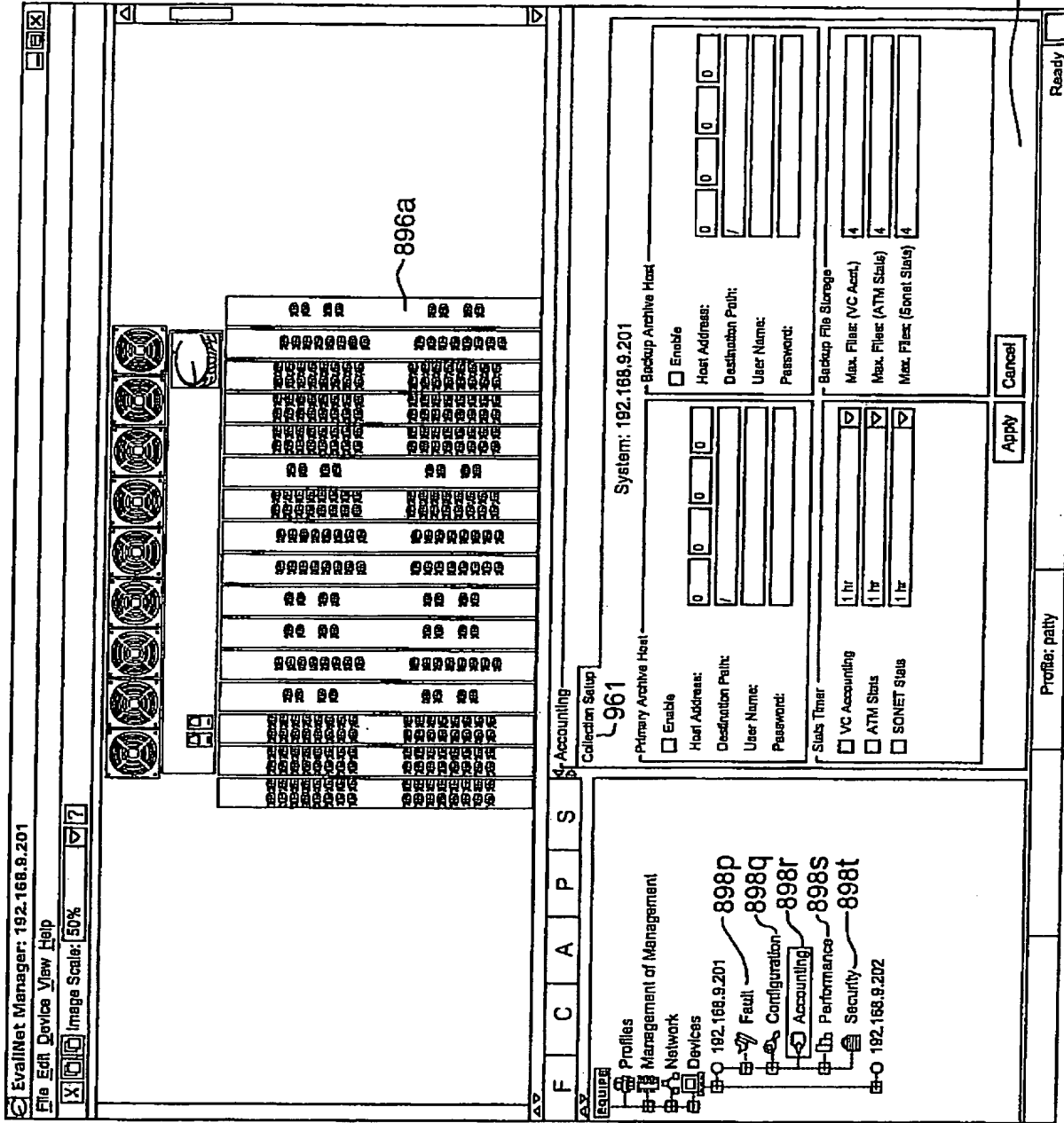


FIG. 7L

897

895

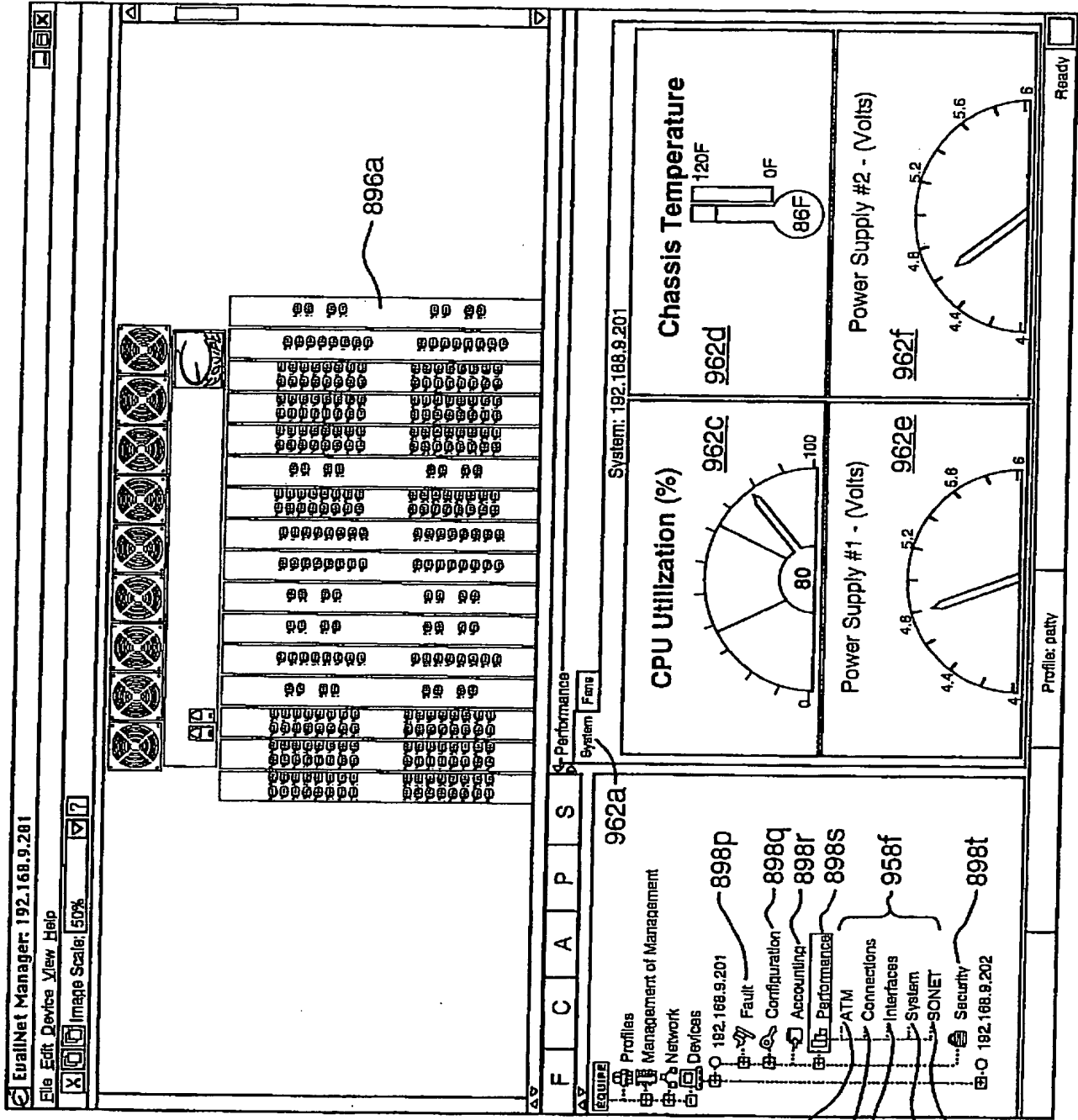


FIG. 7M



895

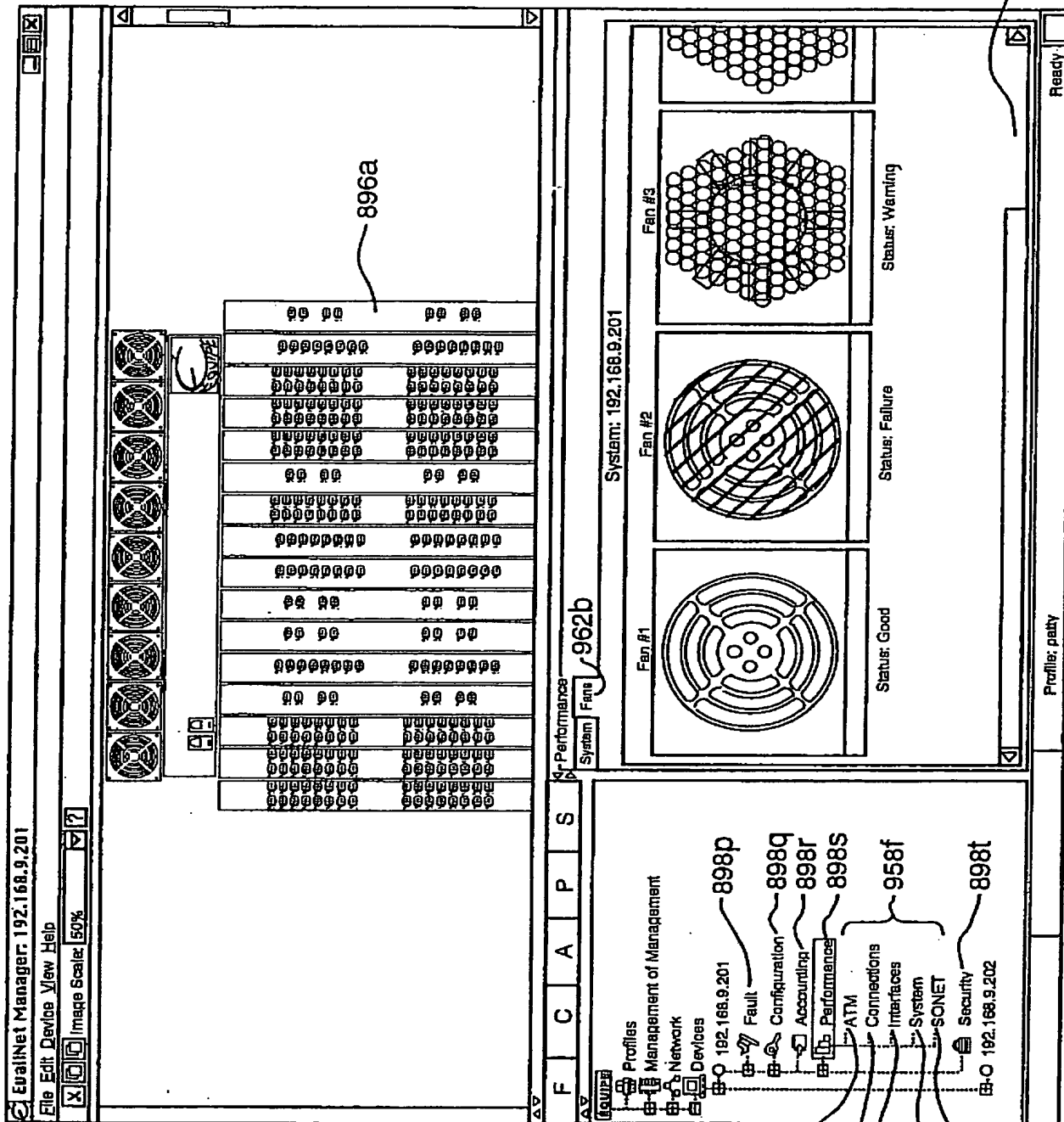


FIG. 7N

895

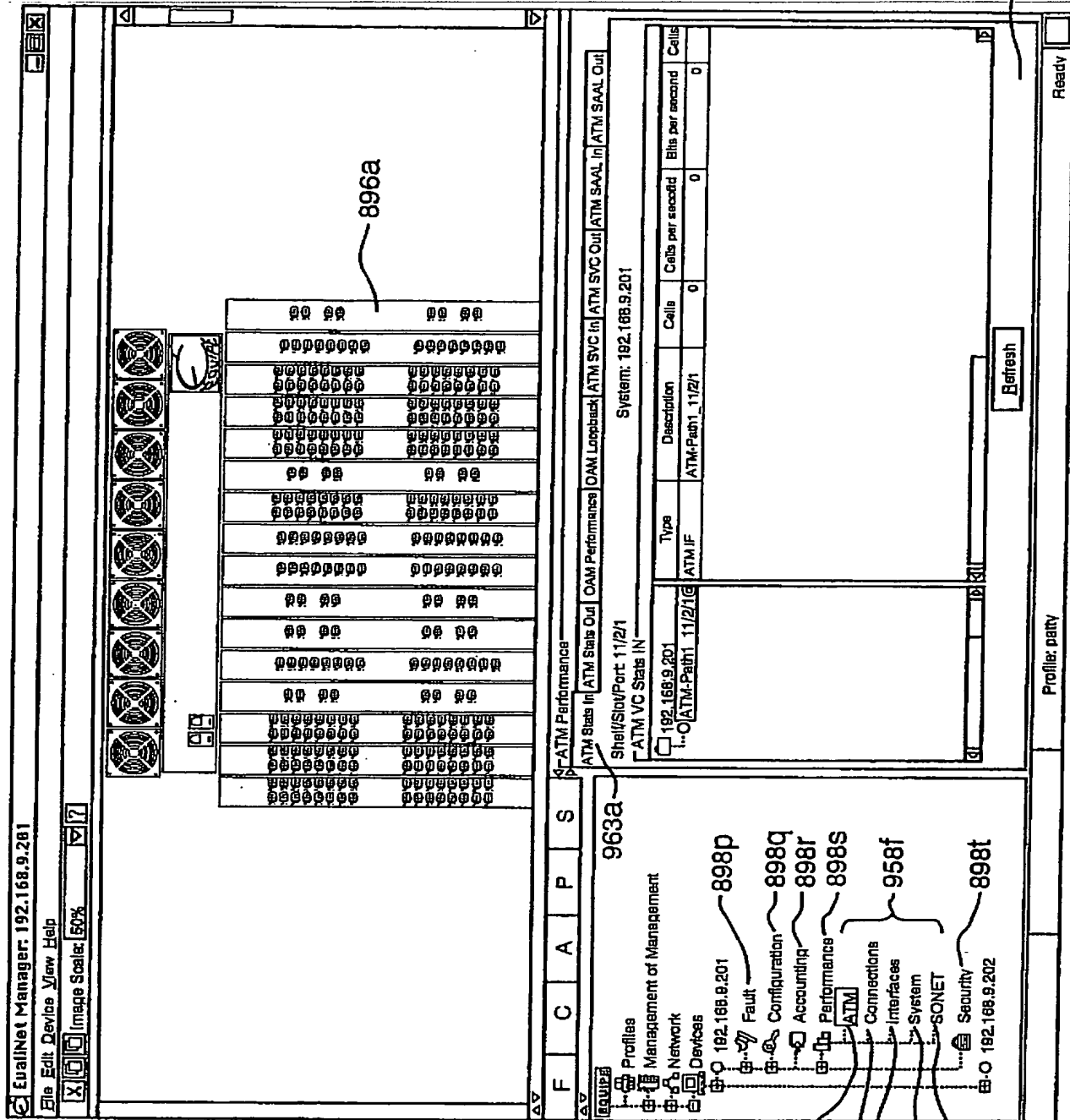


FIG. 70

895

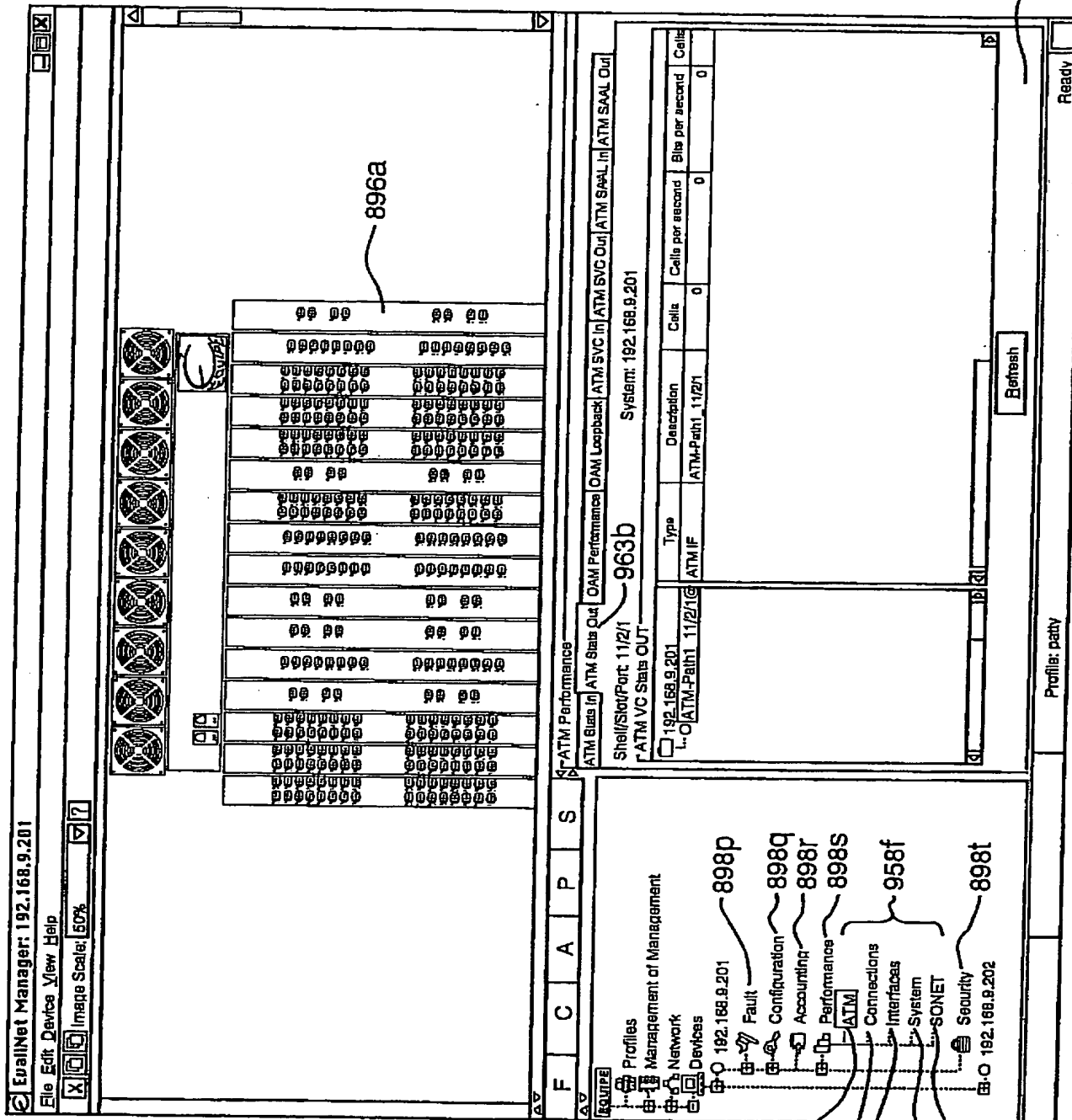


FIG. 7P

895

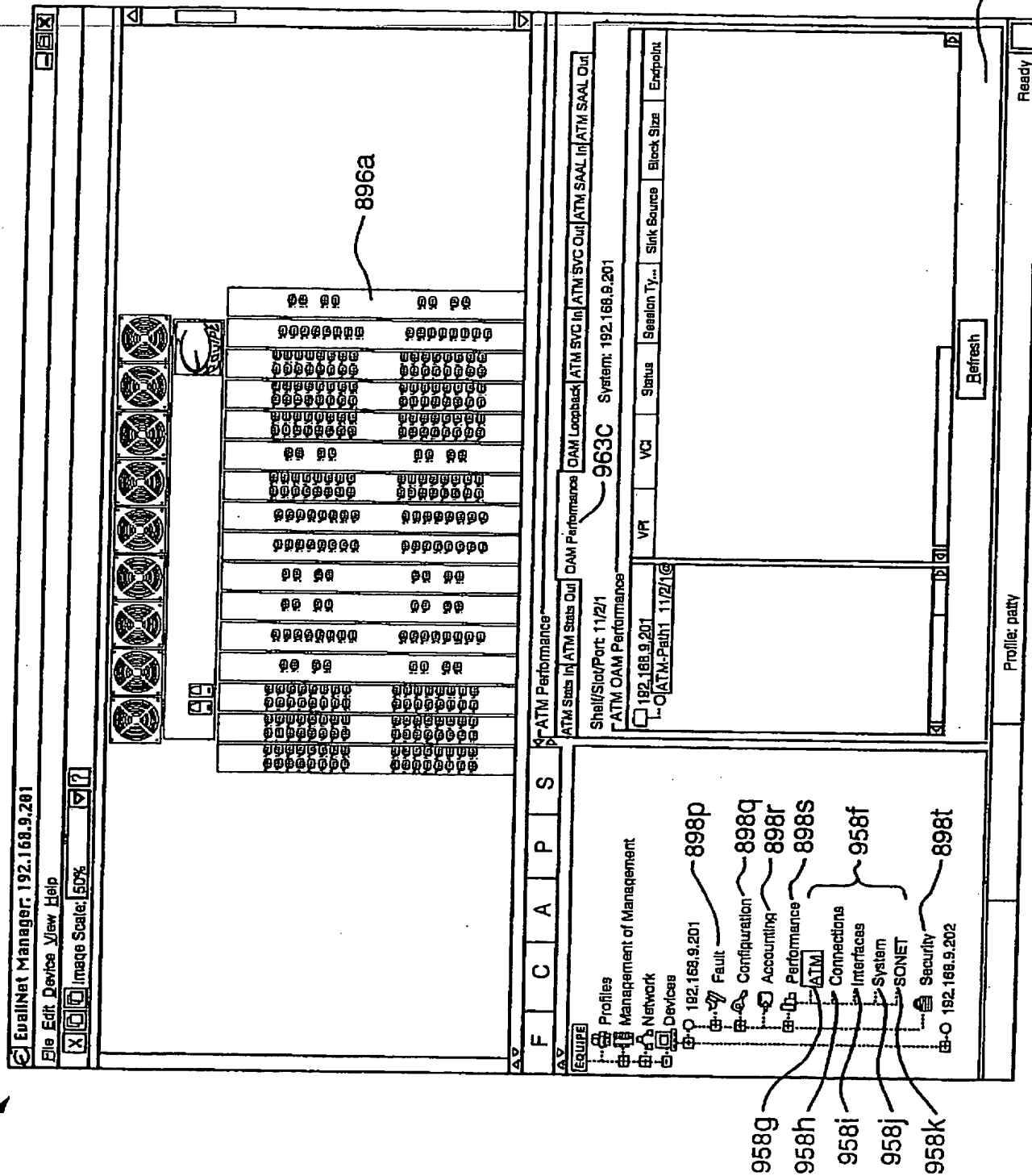


FIG. 7Q

895

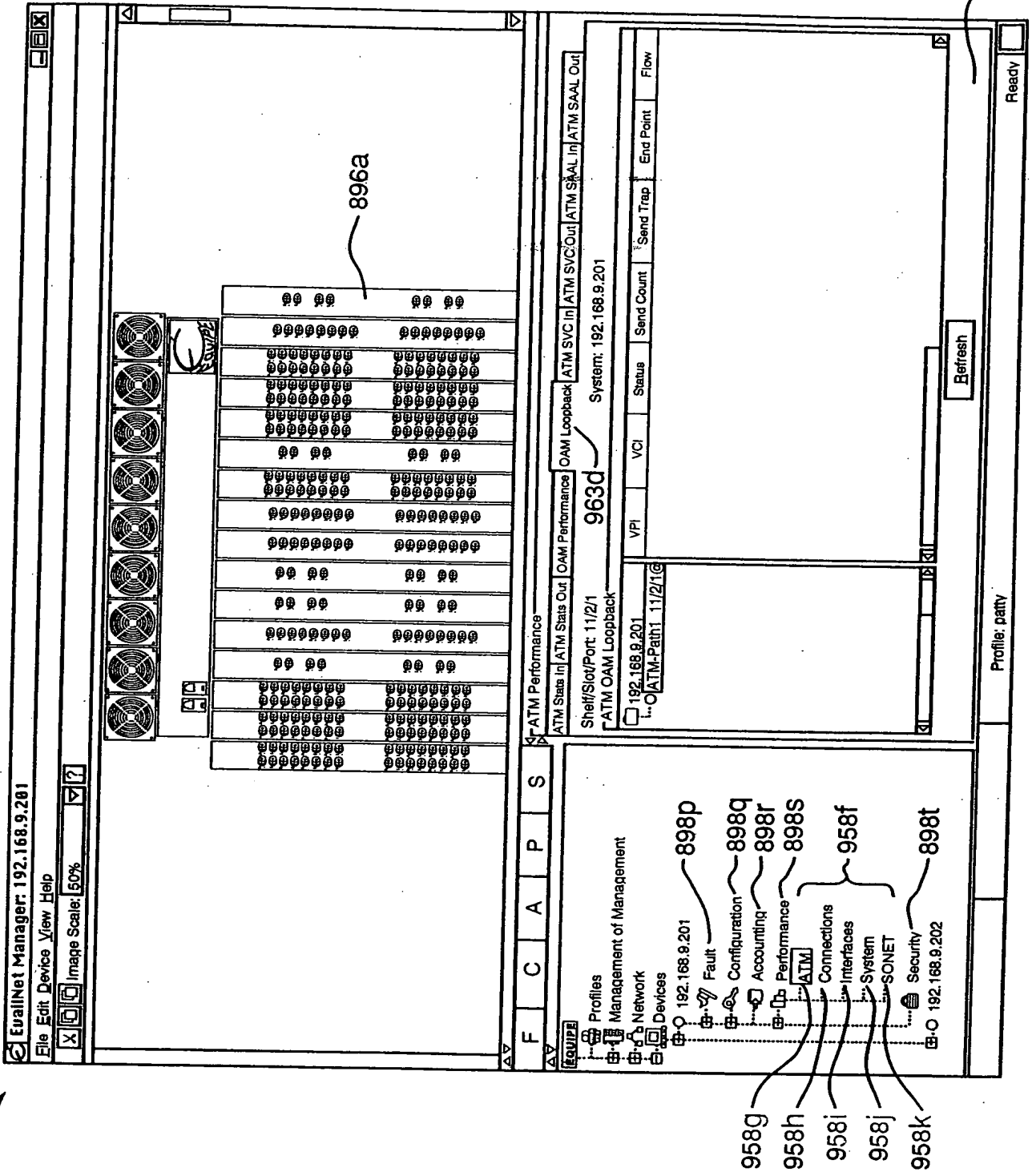
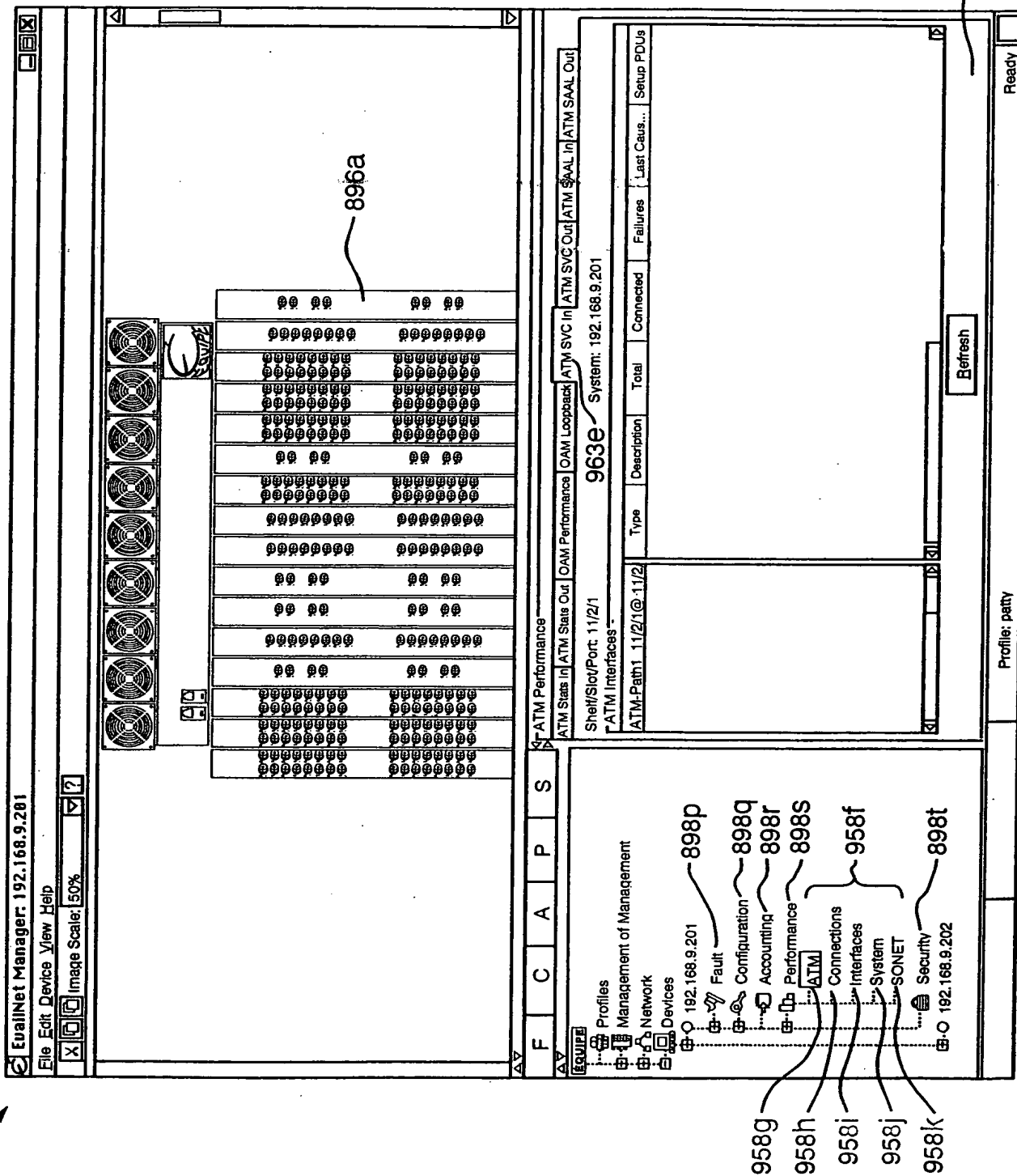


FIG. 7R

895



897

FIG. 7S

895

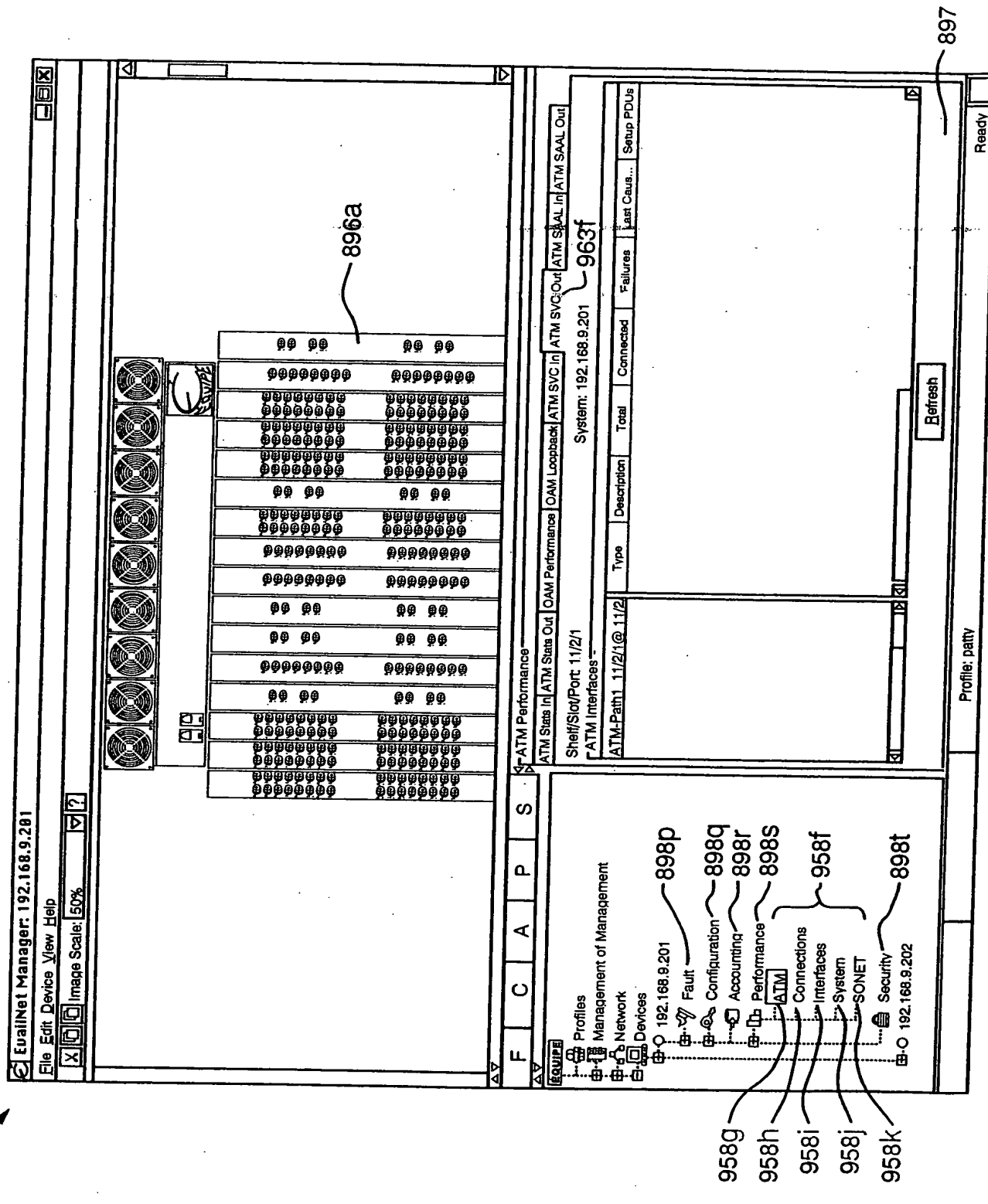


FIG. 7T

895

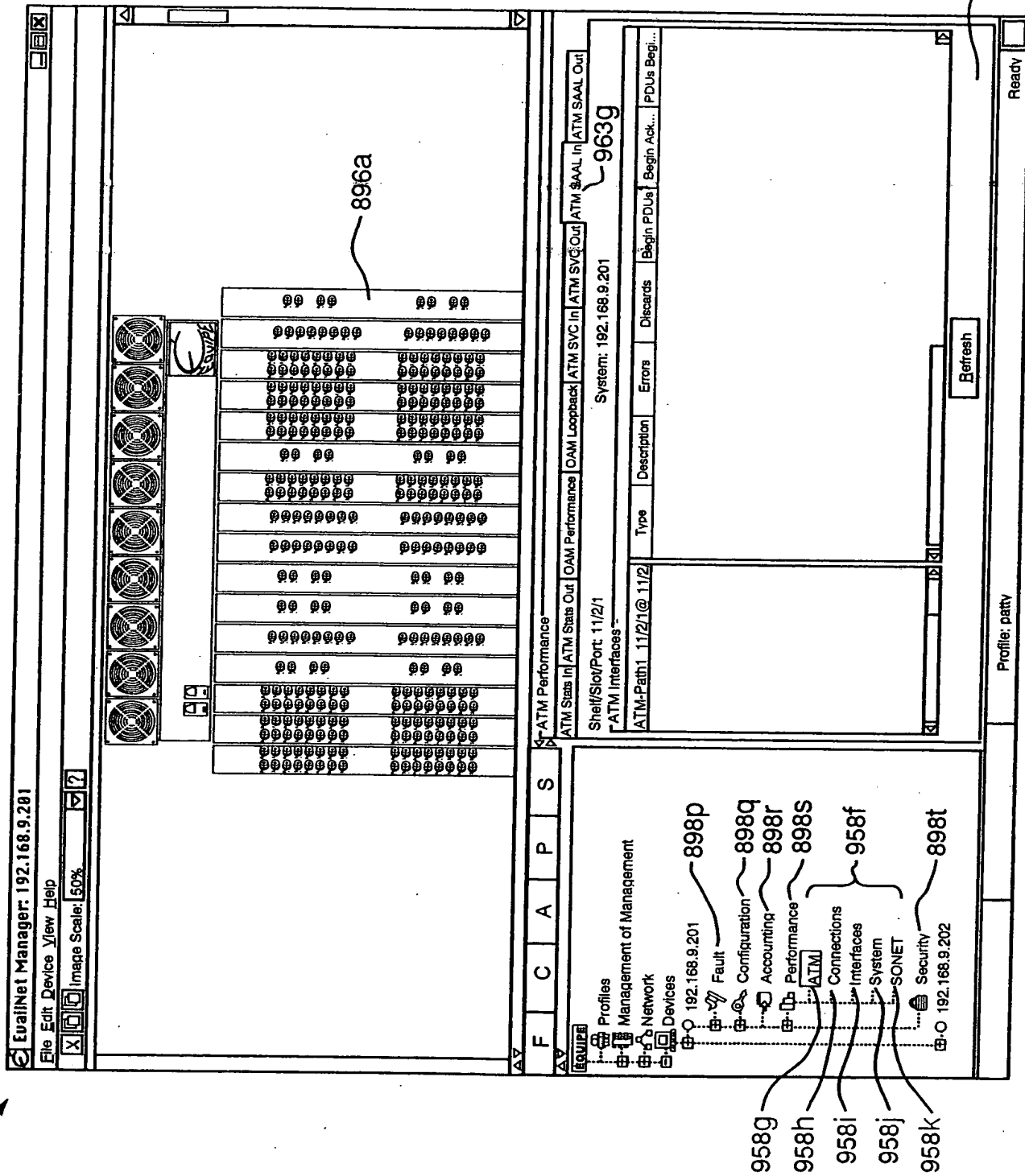


FIG. 7U



895

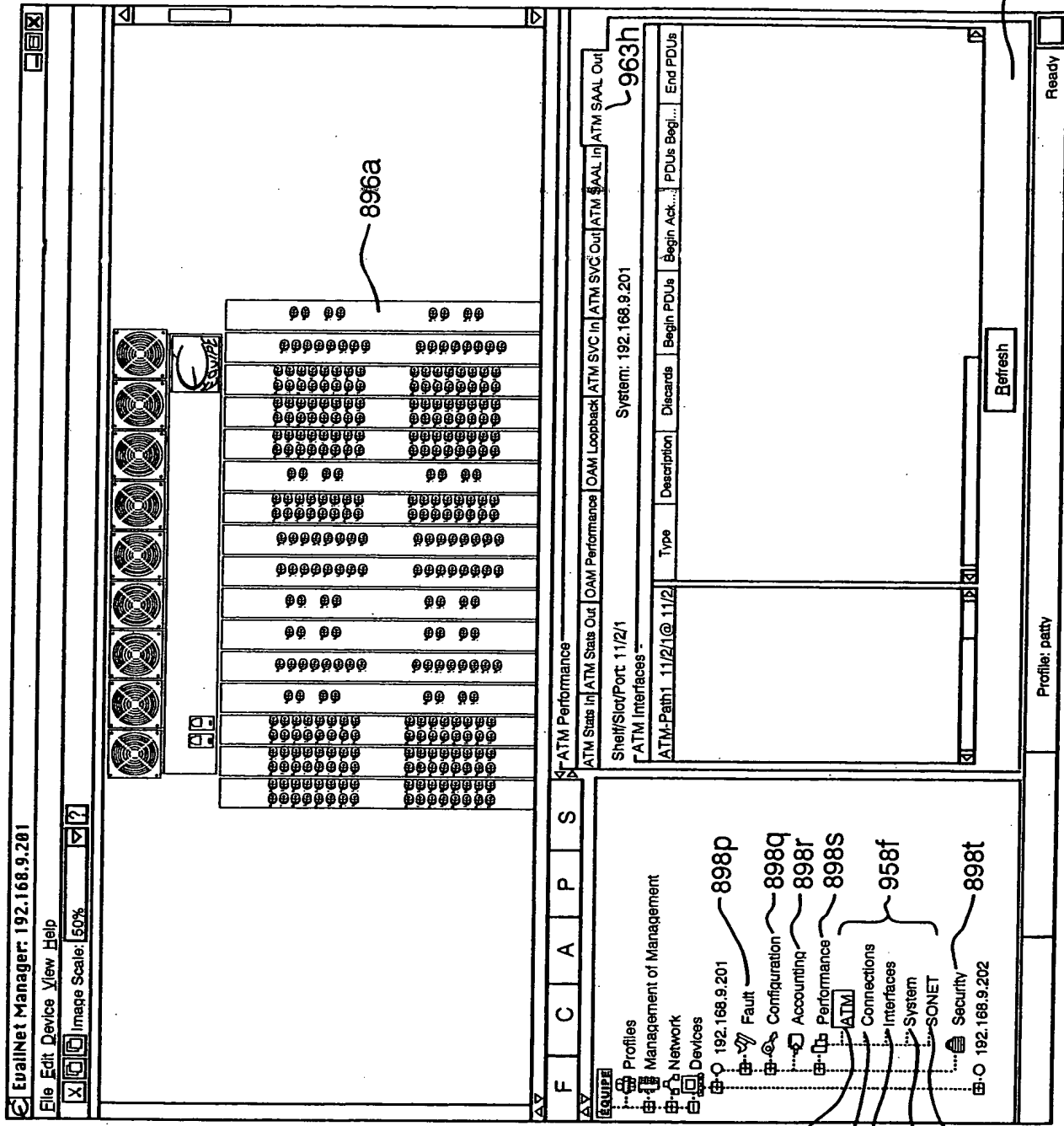


FIG. 7V

895

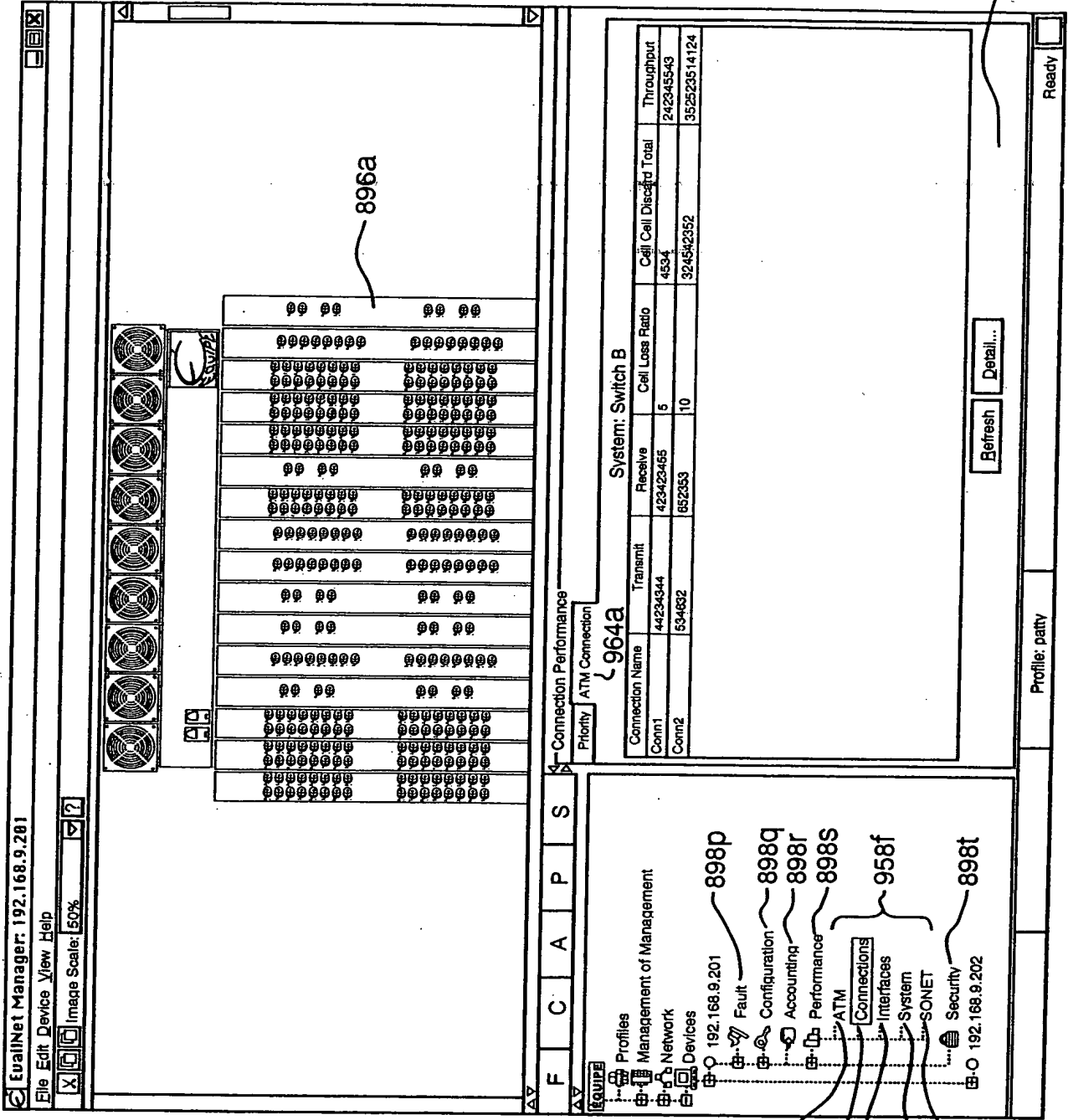


FIG. 7W

895

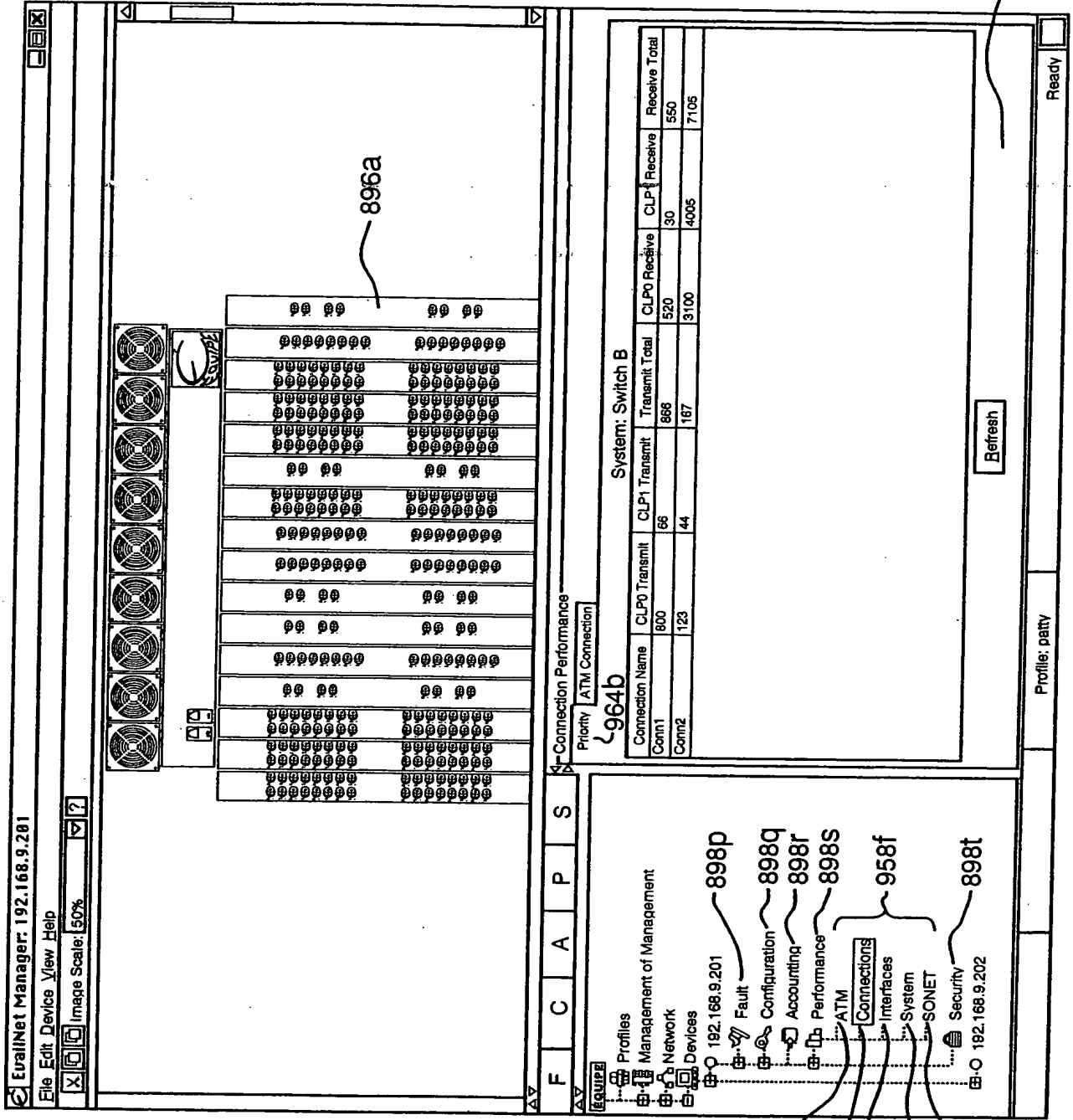


FIG. 7X

895

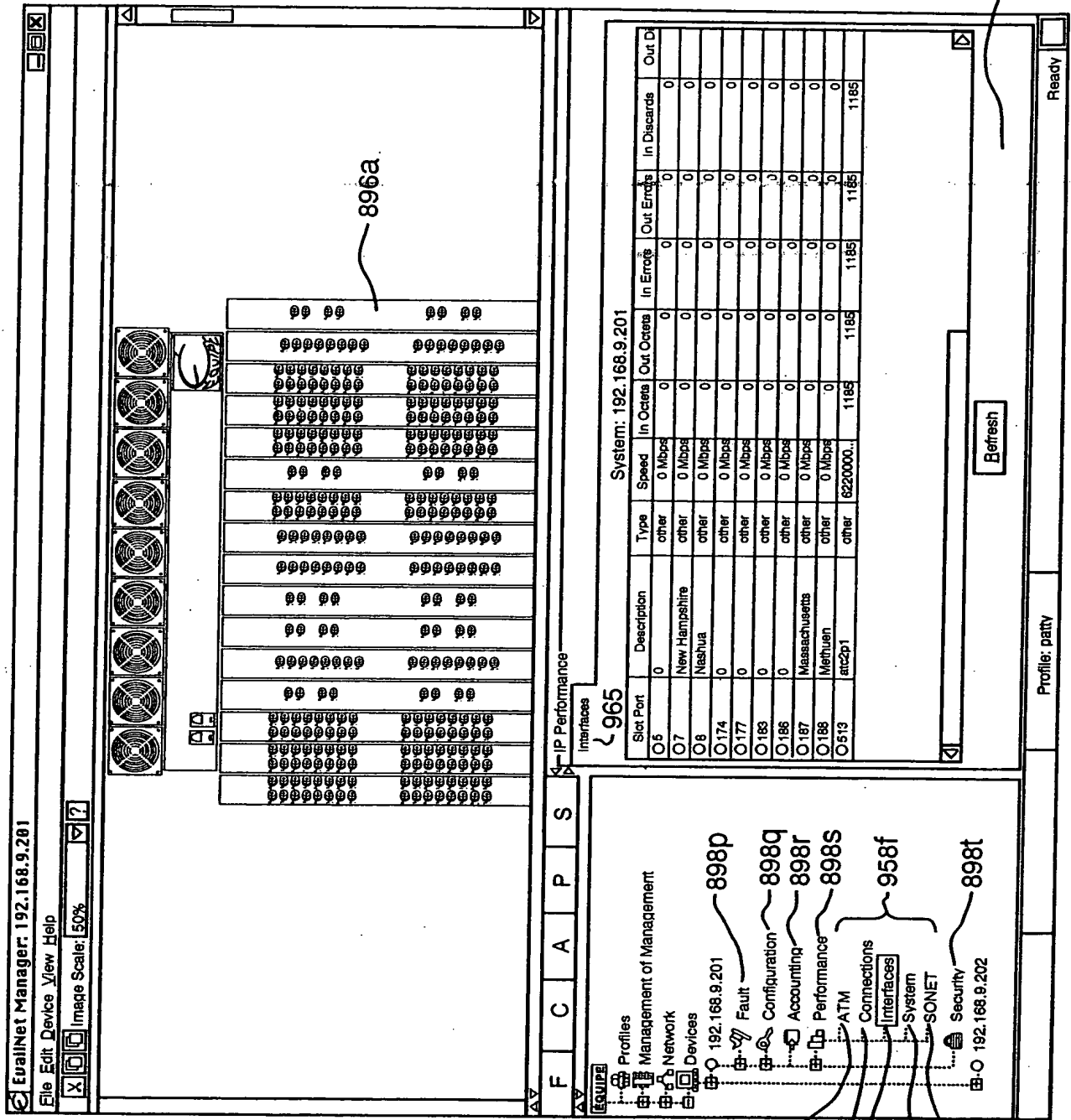


FIG. 7Y

895

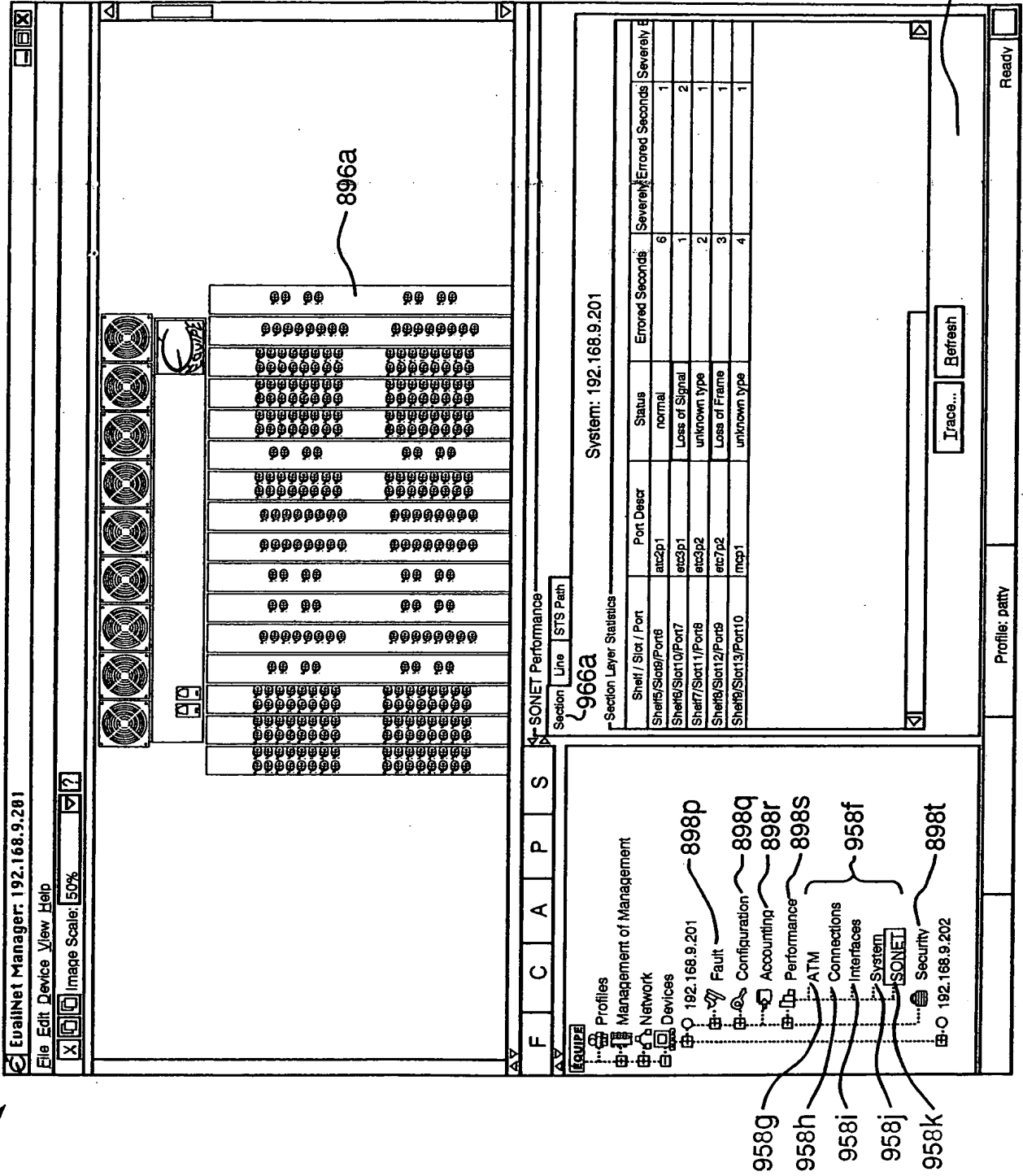


FIG. 8A

895

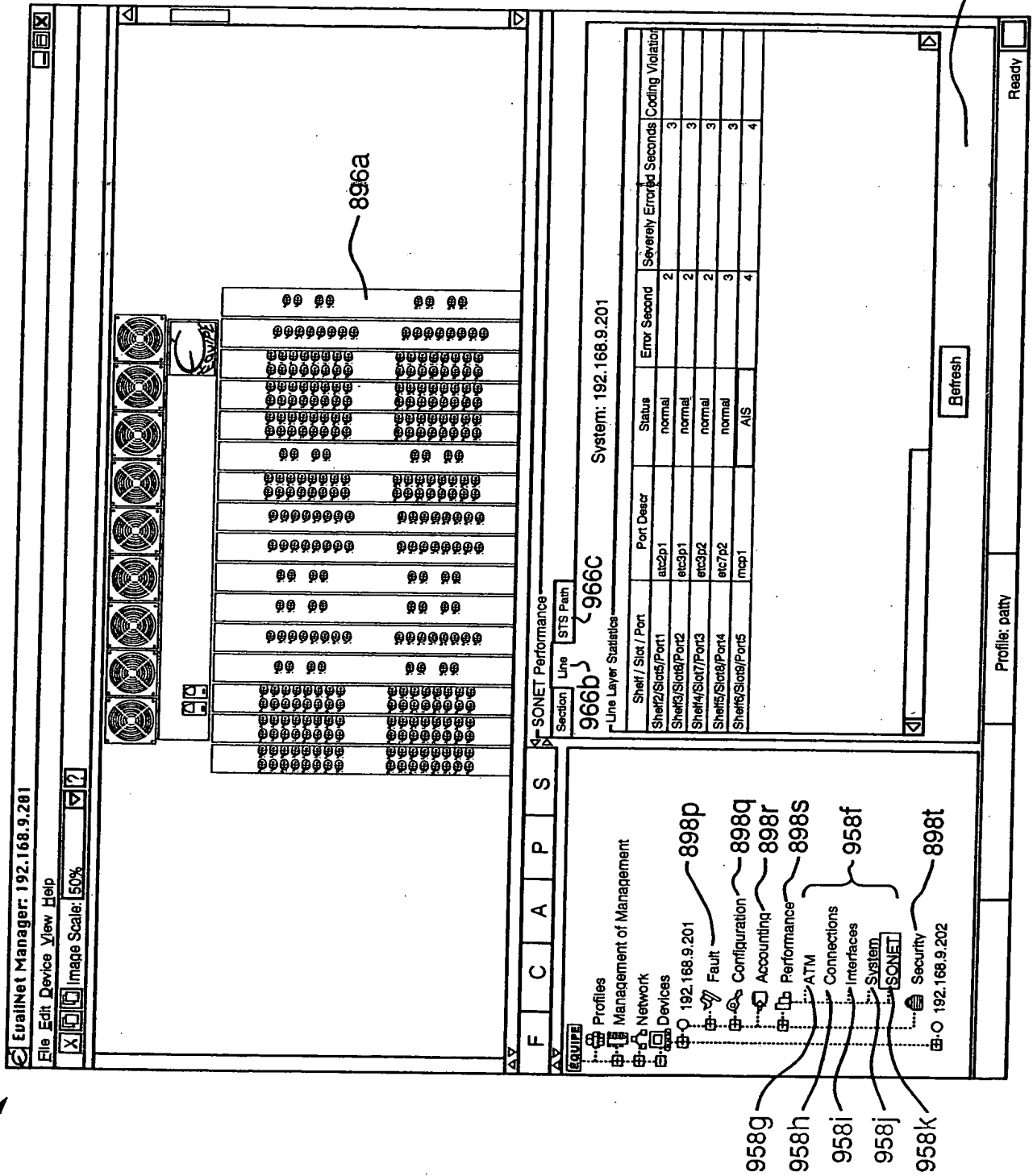
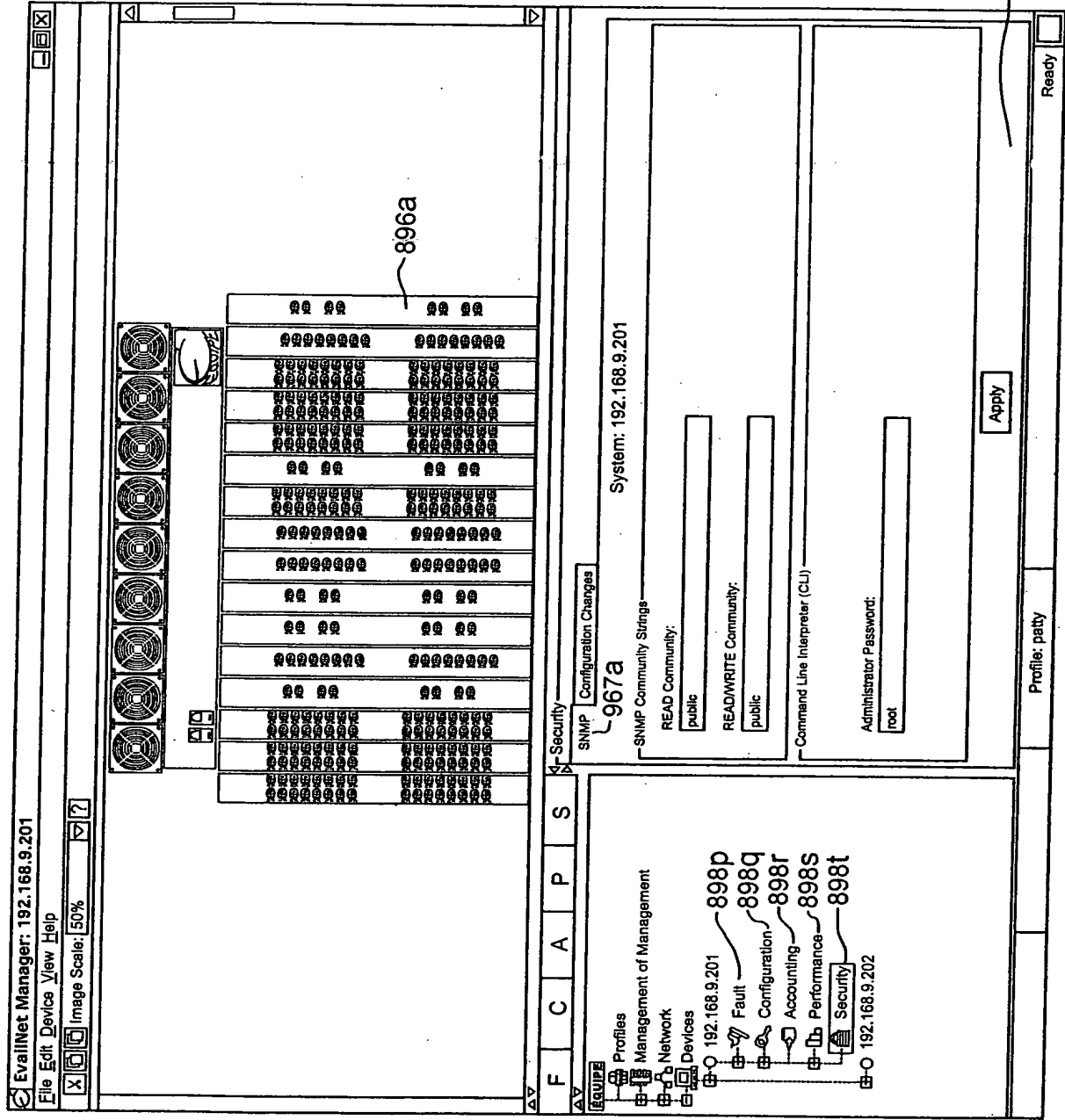


FIG. 8B

FIG. 8C

895

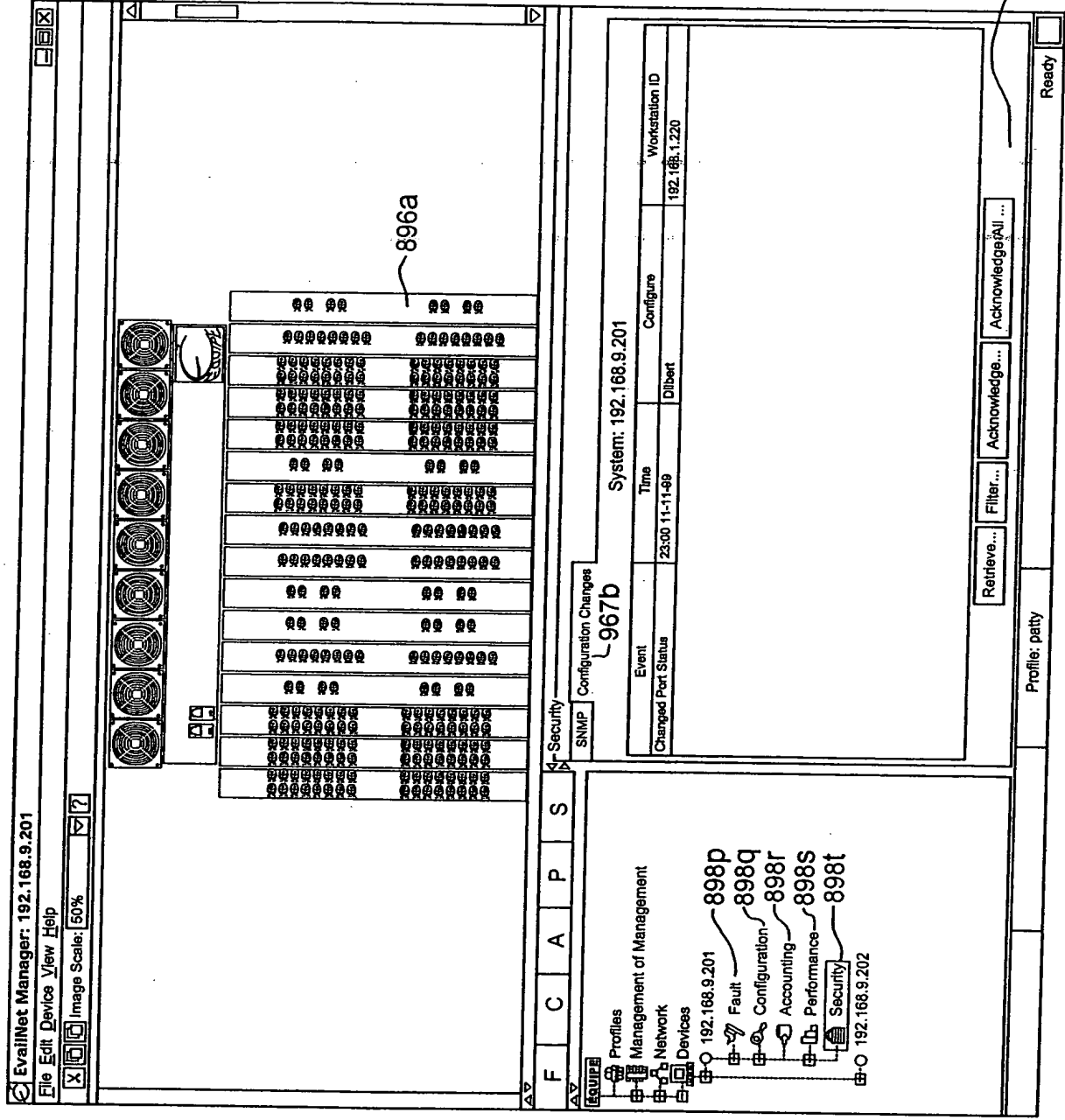


897

FIG. 8D



895



897

FIG. 8E

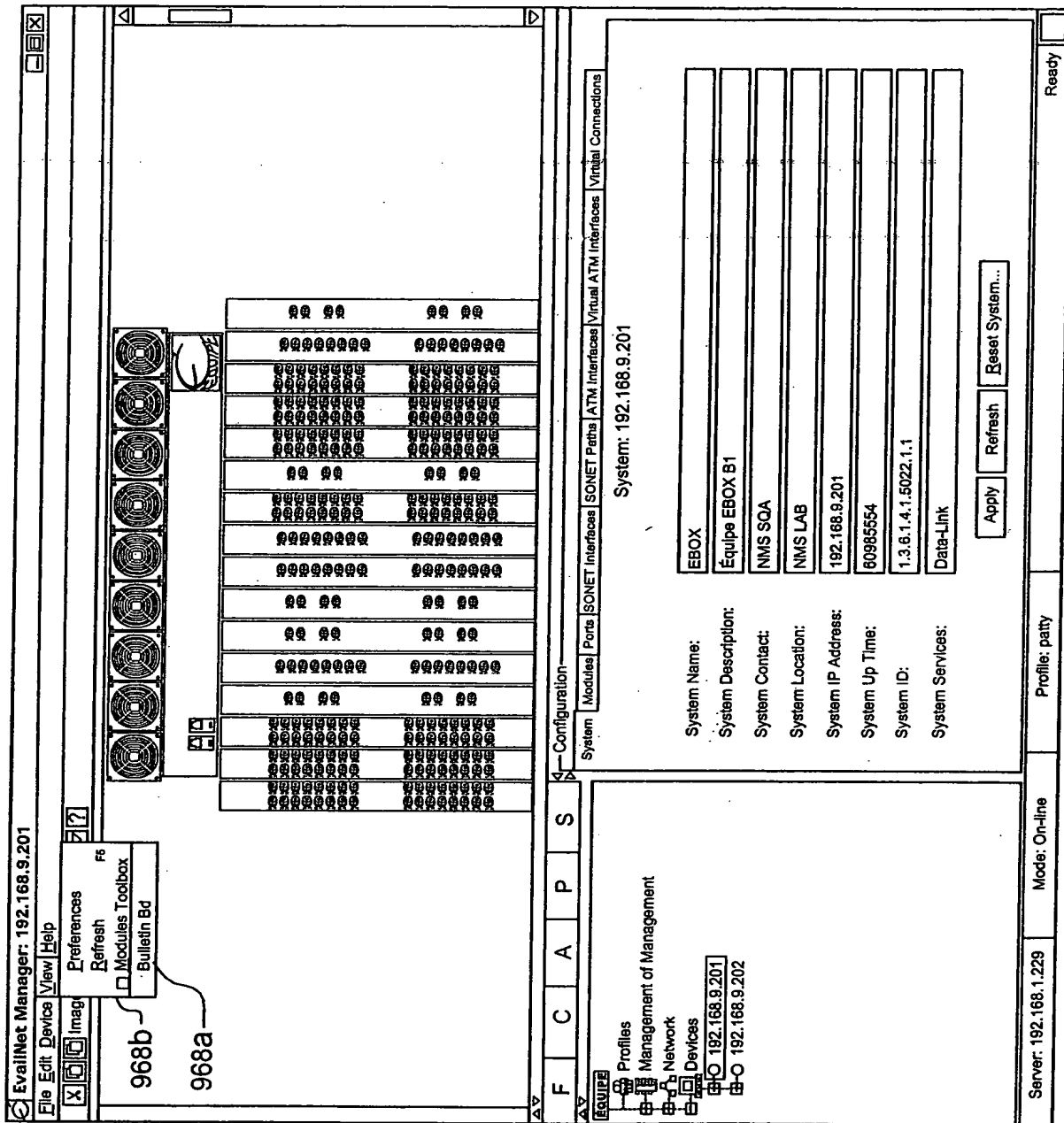
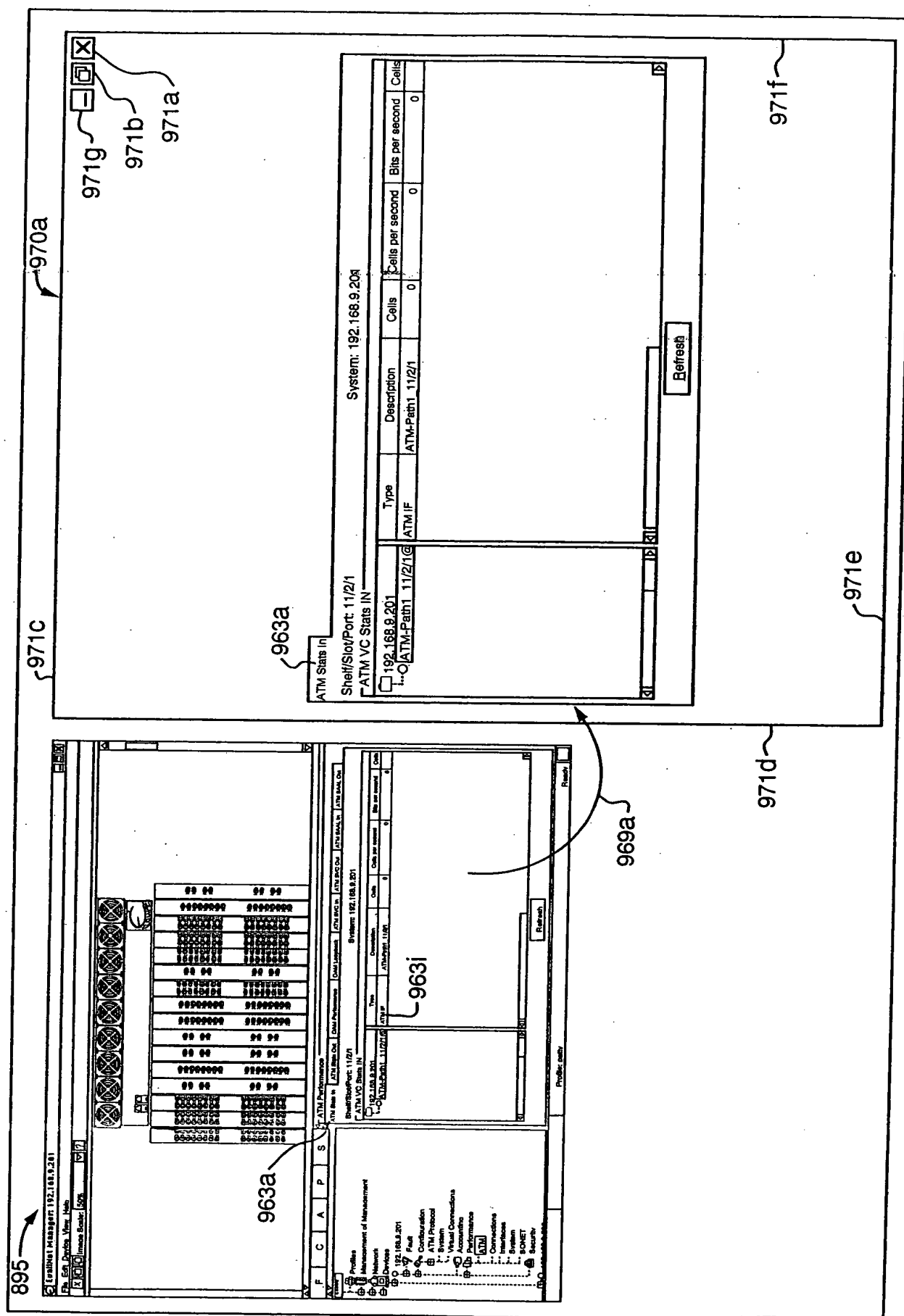


FIG. 9A



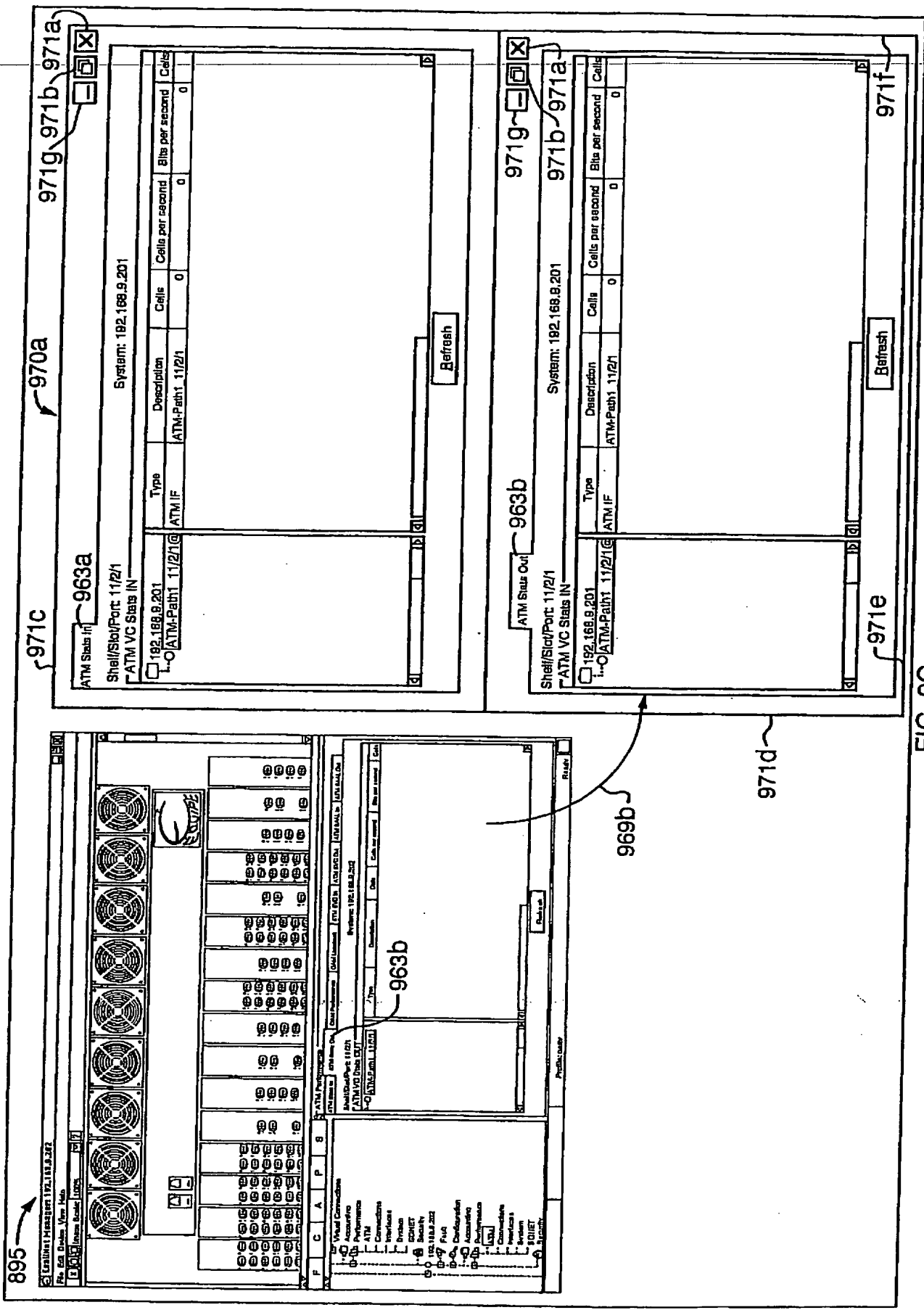
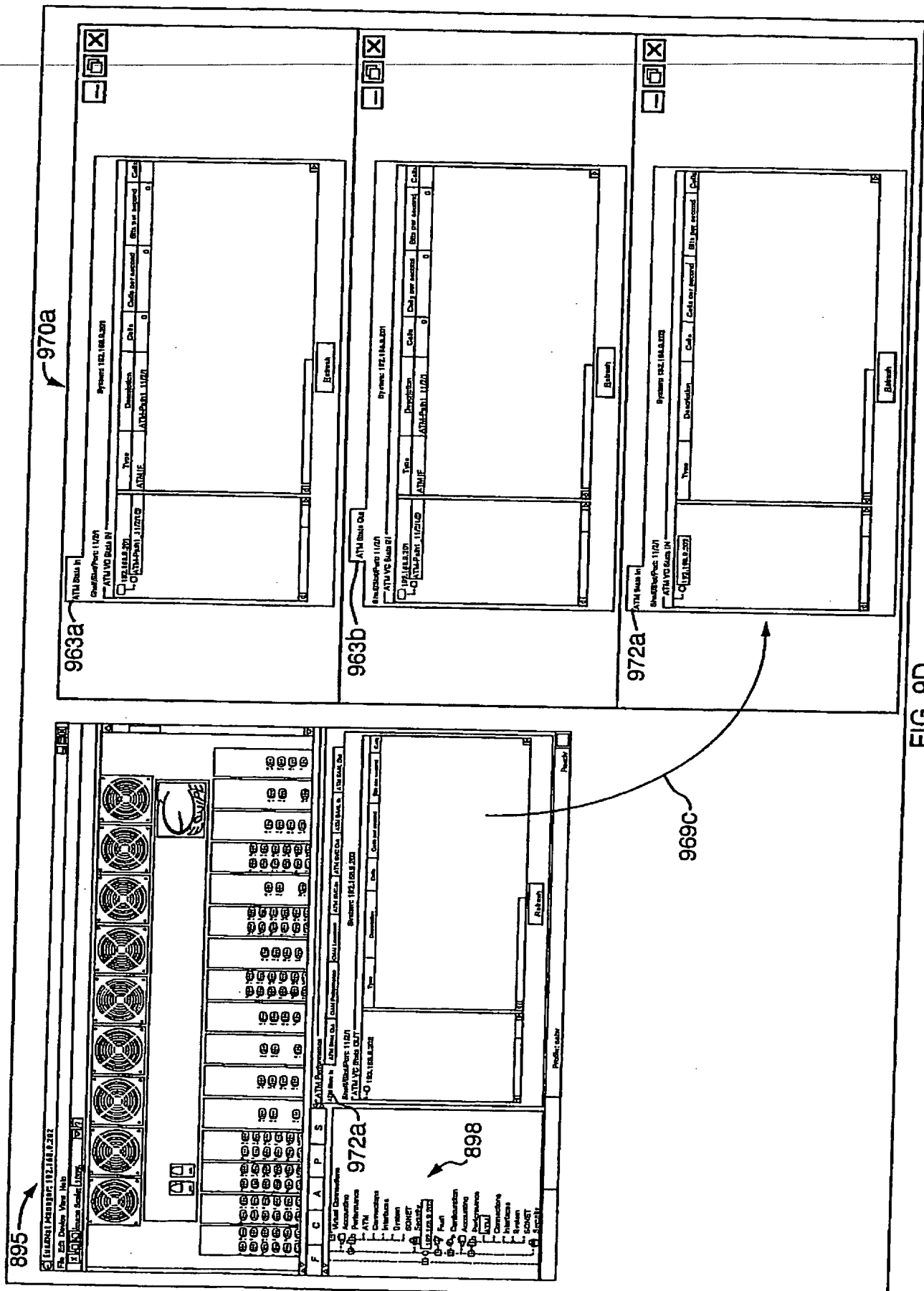


FIG. 9C



**FIG. 9D**

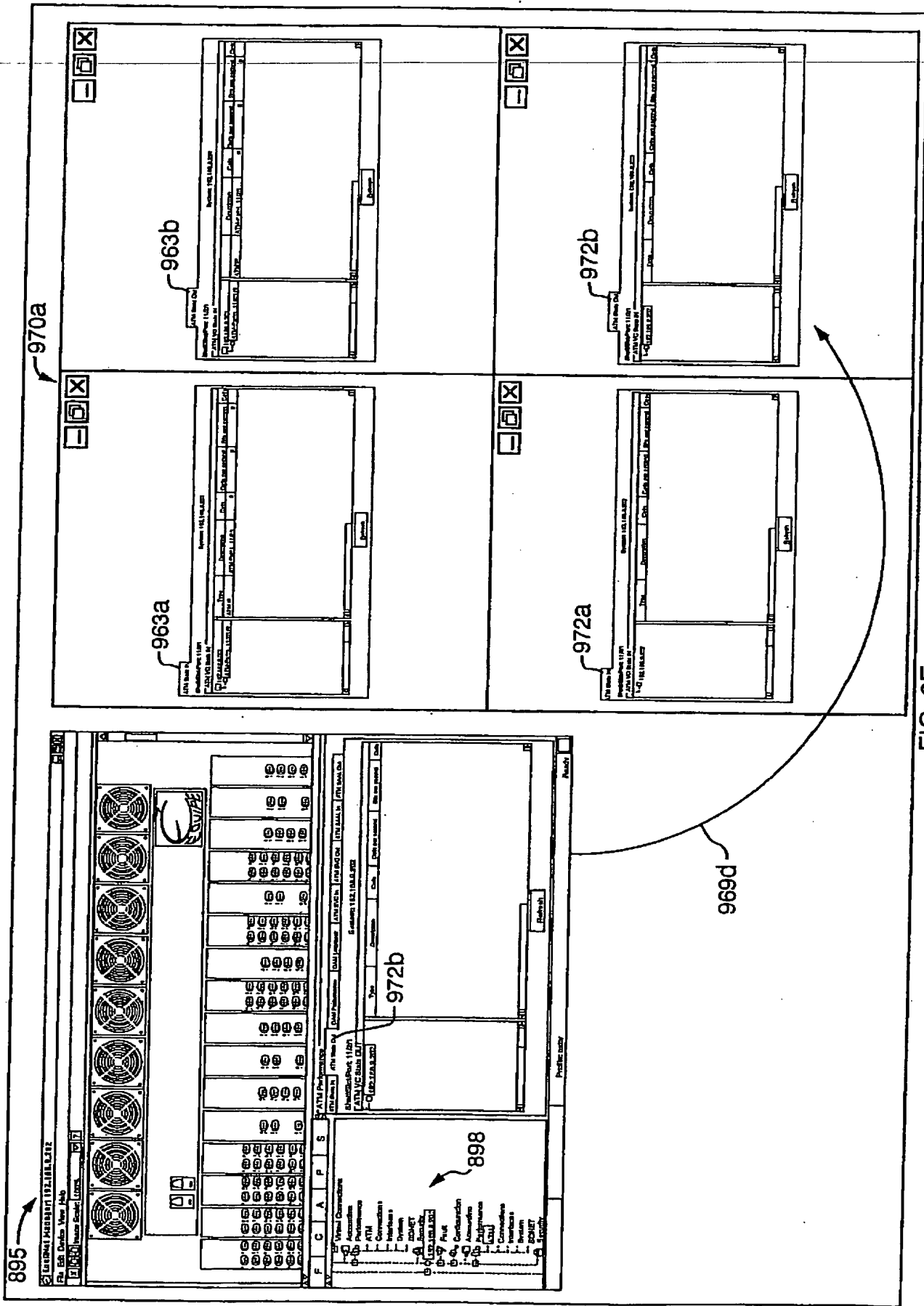
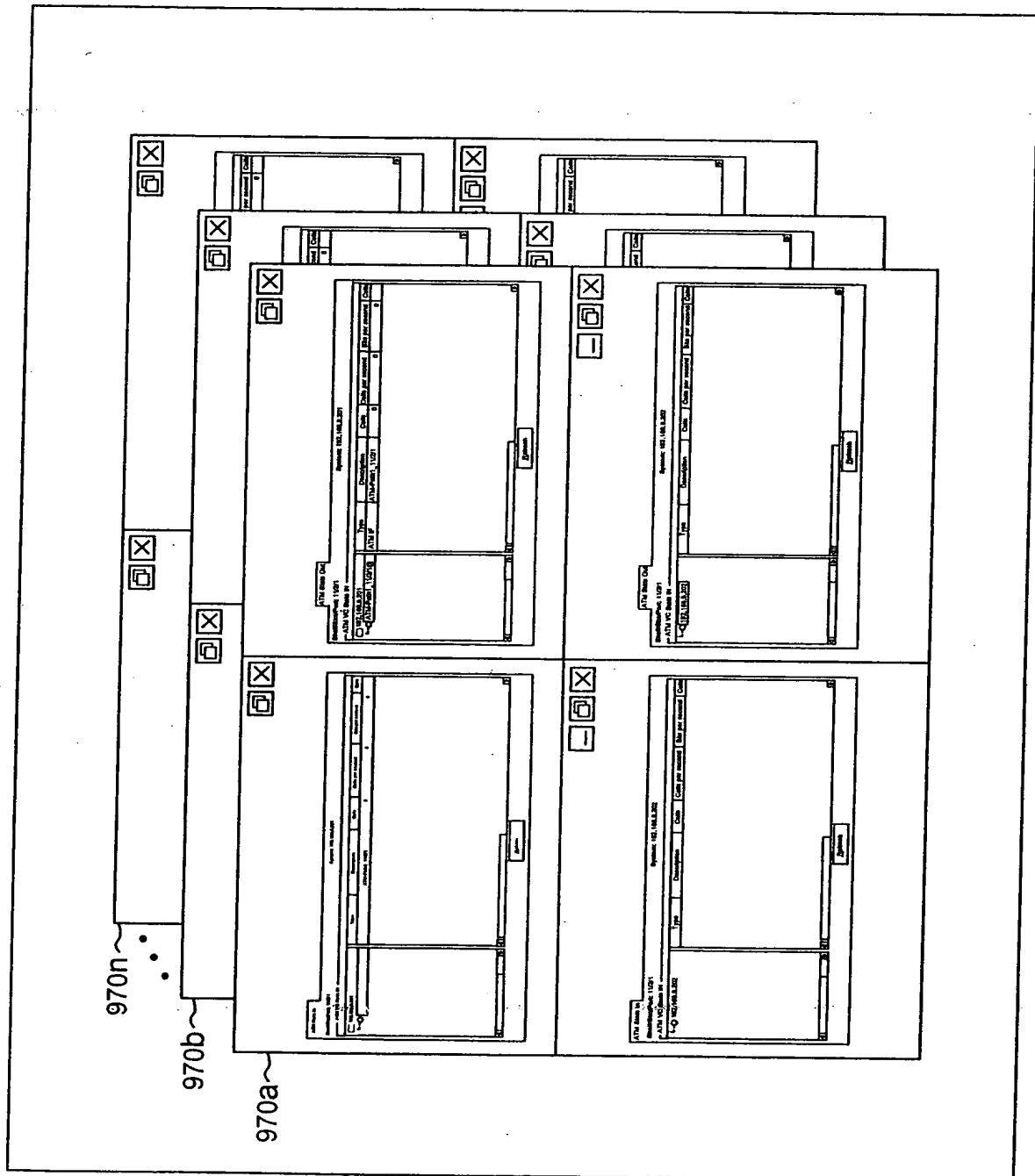


FIG. 9E



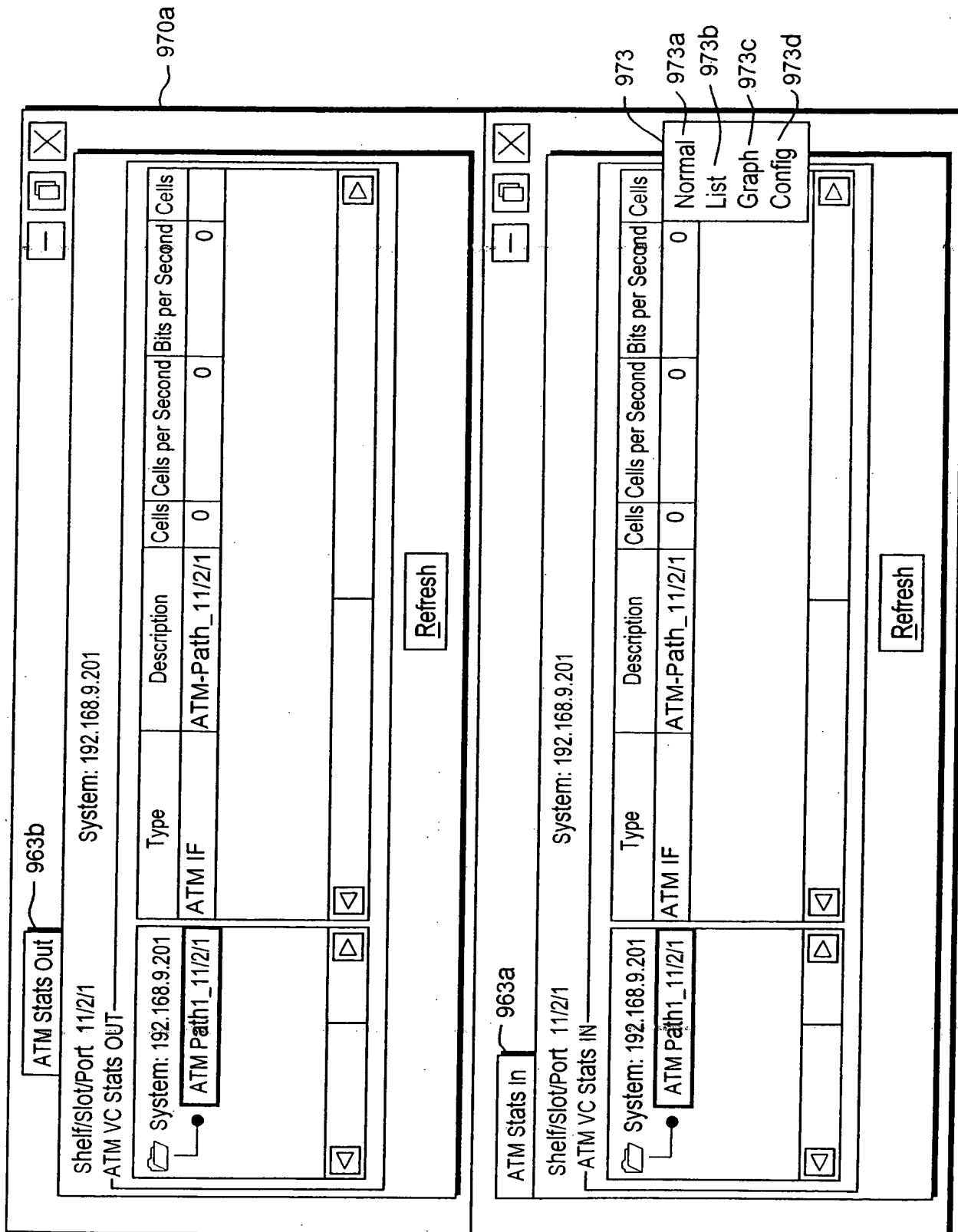


FIG. 9G



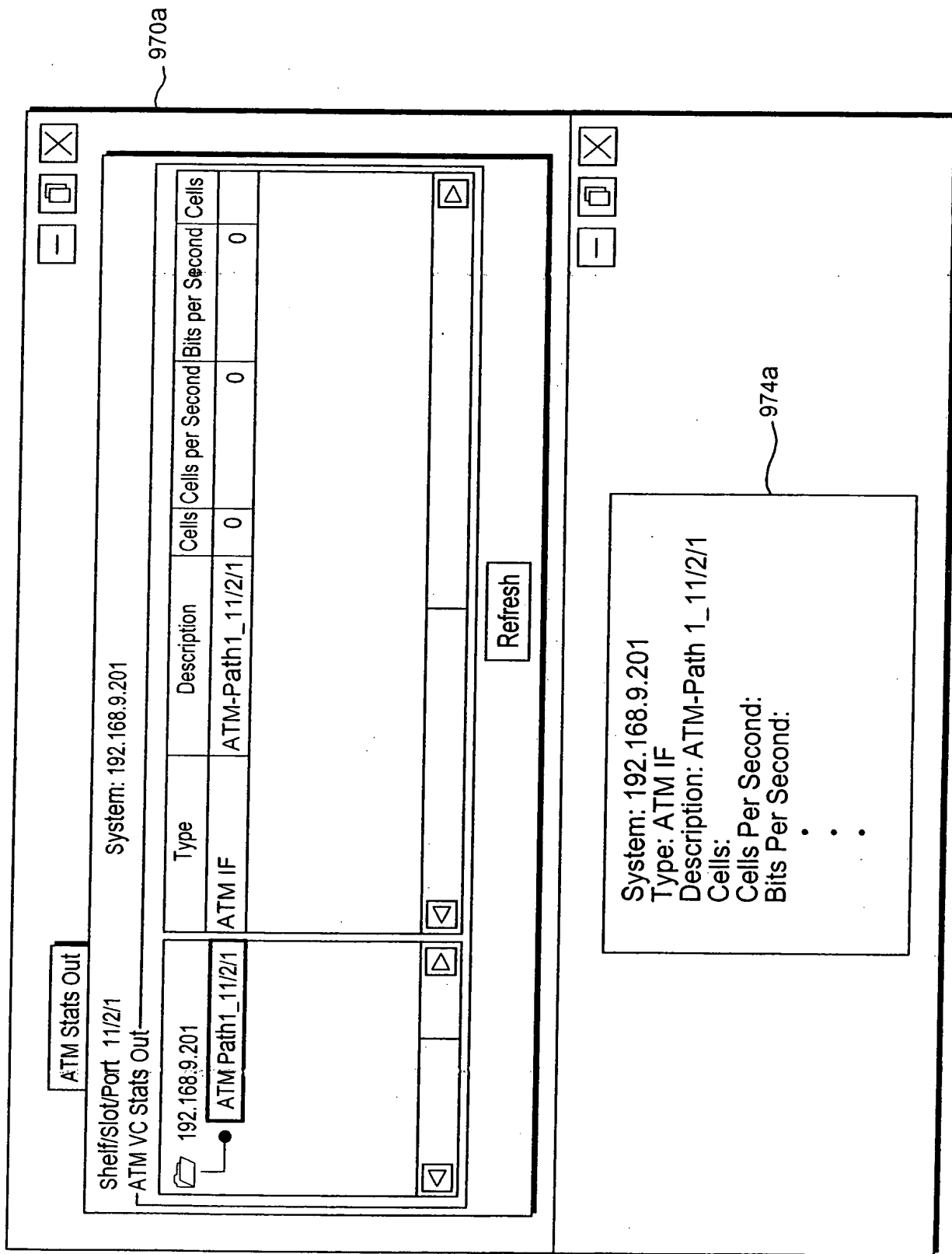


FIG. 9H

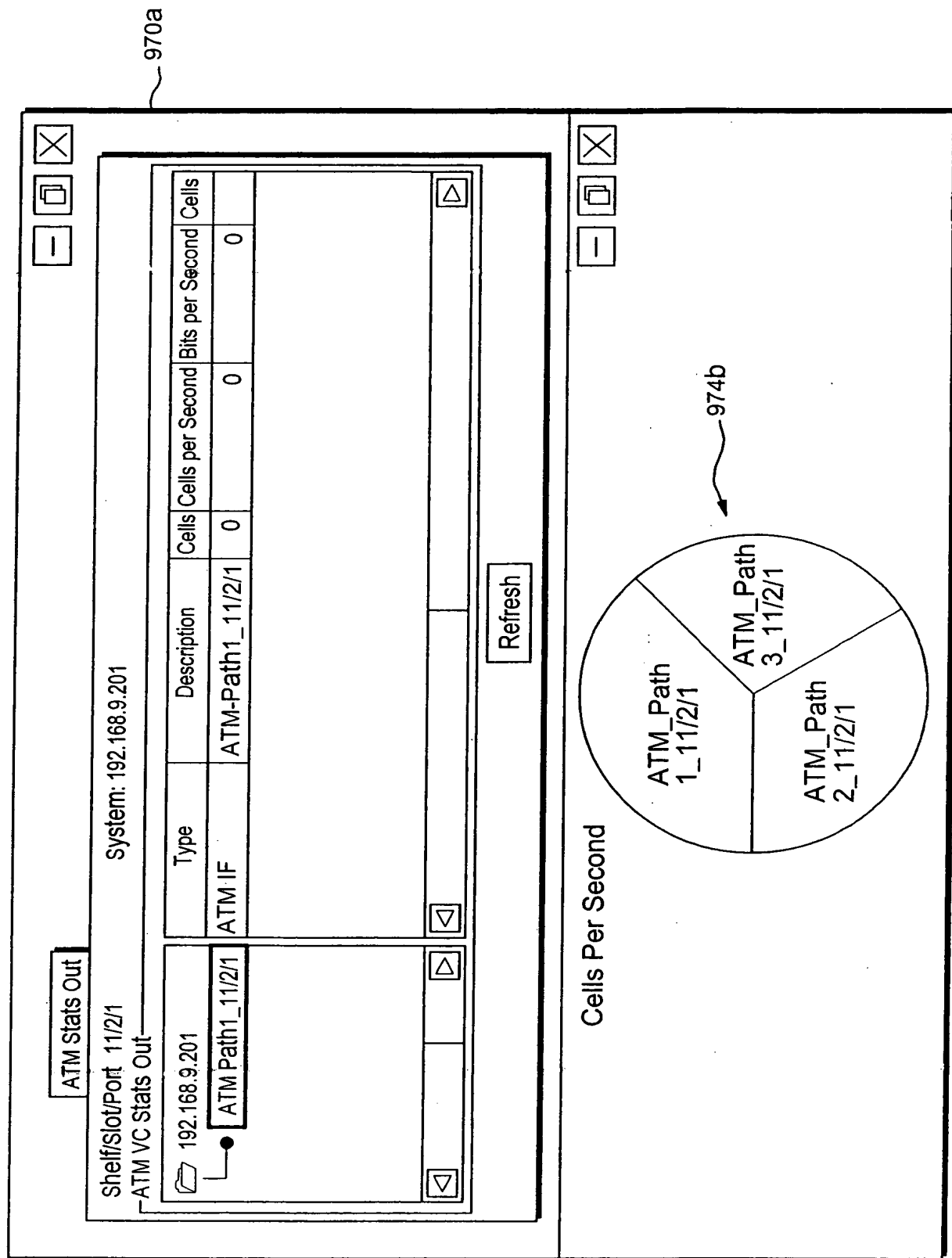


FIG. 9I

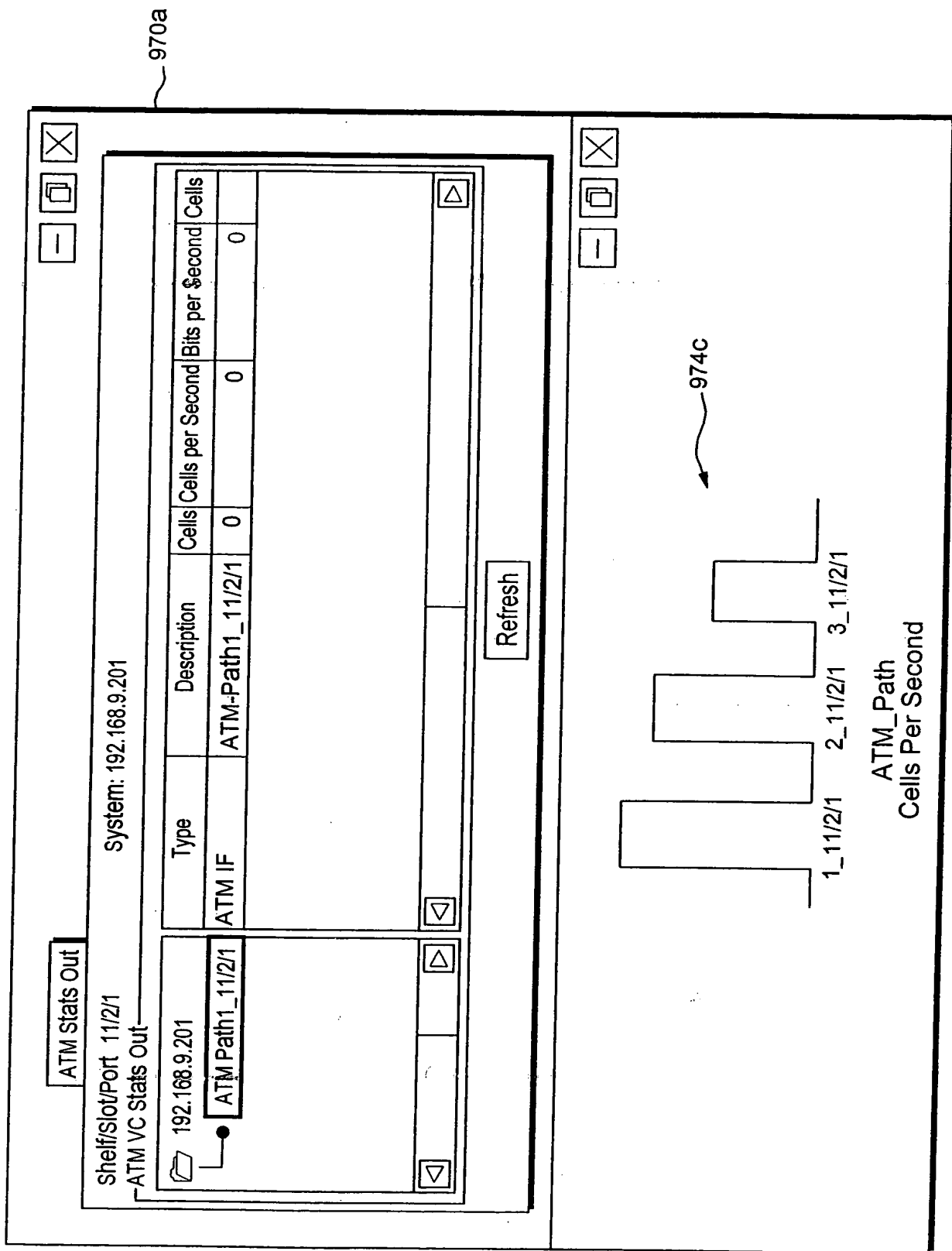


Figure 1: ATM Interface Properties dialog box. The dialog is titled "ATM Interface Properties - 192.168.9.202". It contains the following elements:

- Shelf/Slot/Port:** 11/2/1
- System:** 192.168.9.201
- Path Name:** Path2\_11/2/1
- ATM Properties (Expanded):**
  - Name: ATM-Path\_11/2/1
  - Minimum VPI bits: 1
  - Maximum VPI bits: 8
  - Minimum VCI bits: 5
  - Maximum VCI bits: 16
- ATM VC Stats Out (Expanded):**

| Type   | Description     | Cells | Cells per Second | Bits per Second | Cells |
|--------|-----------------|-------|------------------|-----------------|-------|
| ATM IF | ATM-Path_11/2/1 | 0     | 0                | 0               | 0     |
- Buttons:** OK, Cancel, Refresh.





|  |                         |
|--|-------------------------|
|  ATM Interface Properties - 192.168.9.202          |                         |
| Shelf/Slot/Port: 11/4/1  | Path Name: Path2_11/2/1 |
| ATM Properties   |                         |
| Name   | ATM-Path_11/2/1         |
| Minimum VPI bits   | 1                       |
| Maximum VPI bits   | 8                       |
| Minimum VCI bits   | 5                       |
| Maximum VCI bits   | 16                      |
| <div>  OK            Cancel         </div> |                         |

FIG. 9K

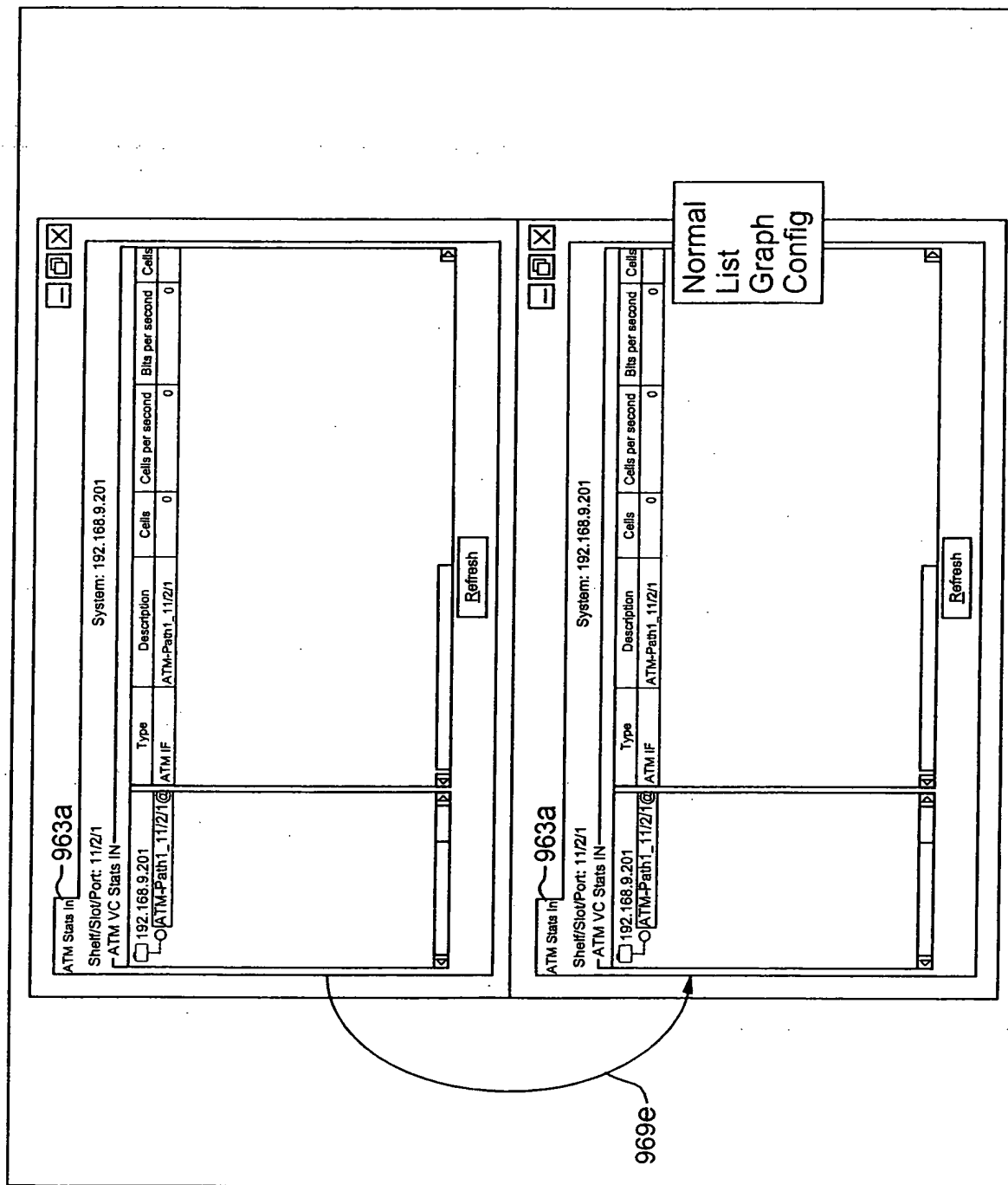
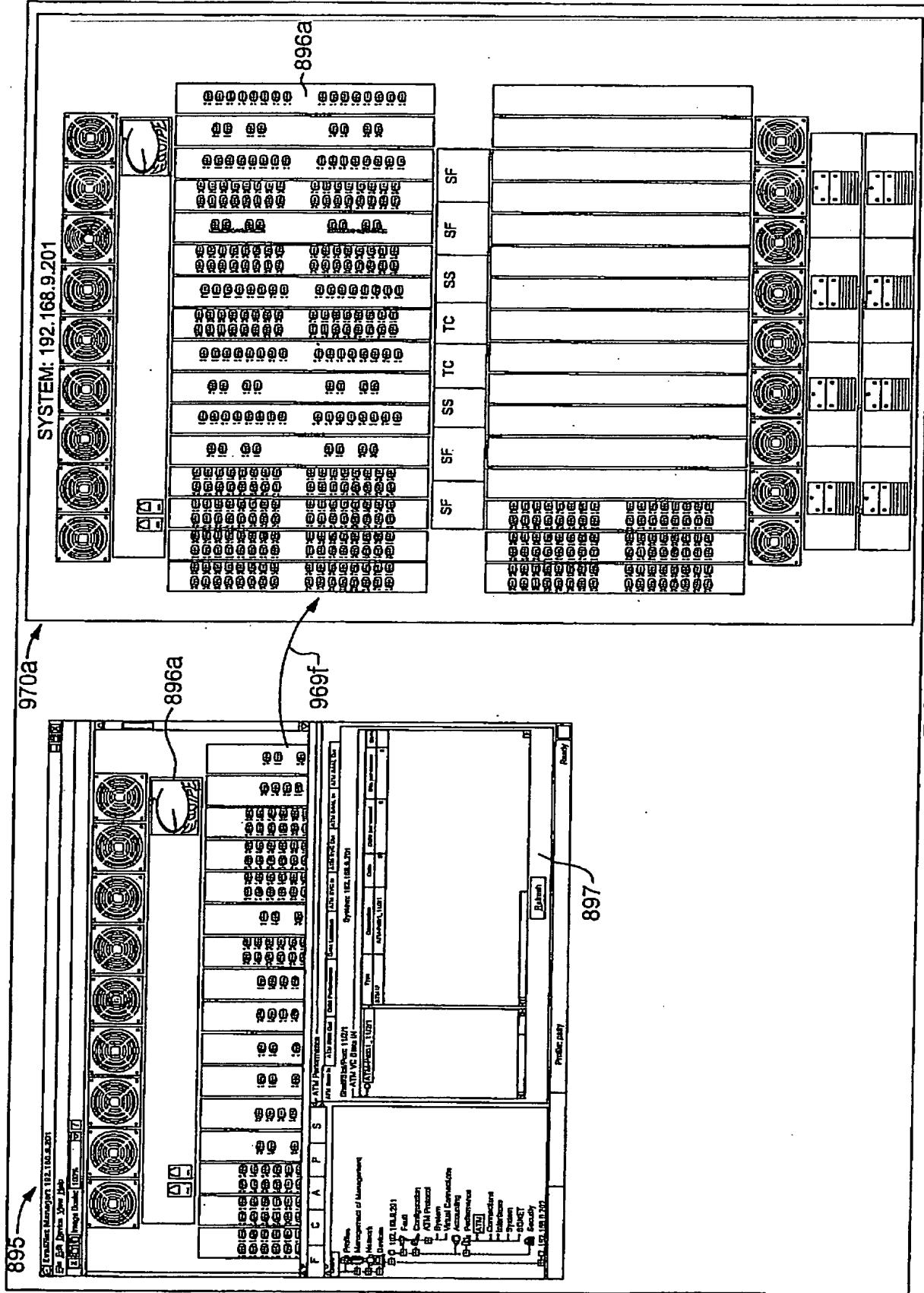
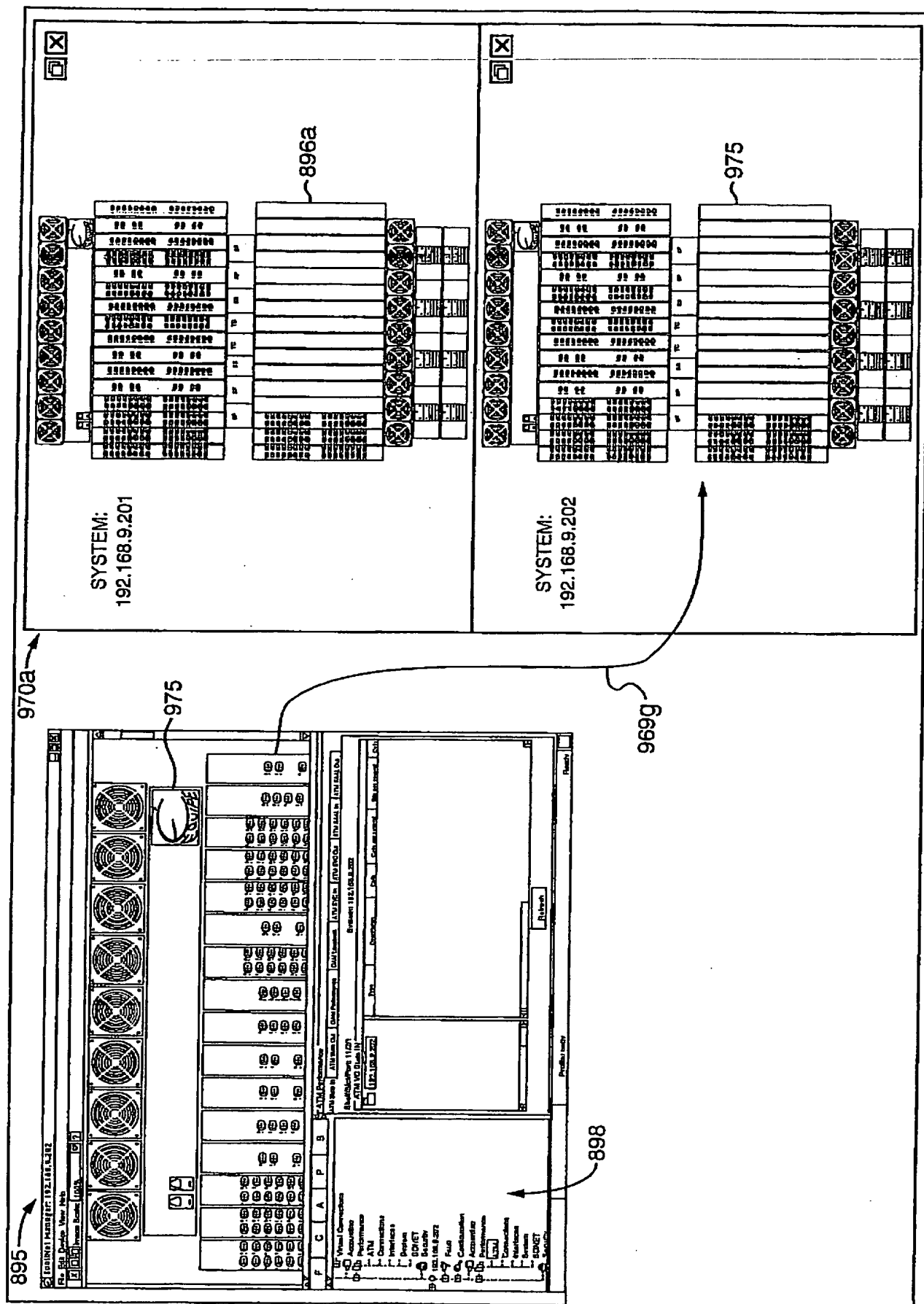


FIG. 9L





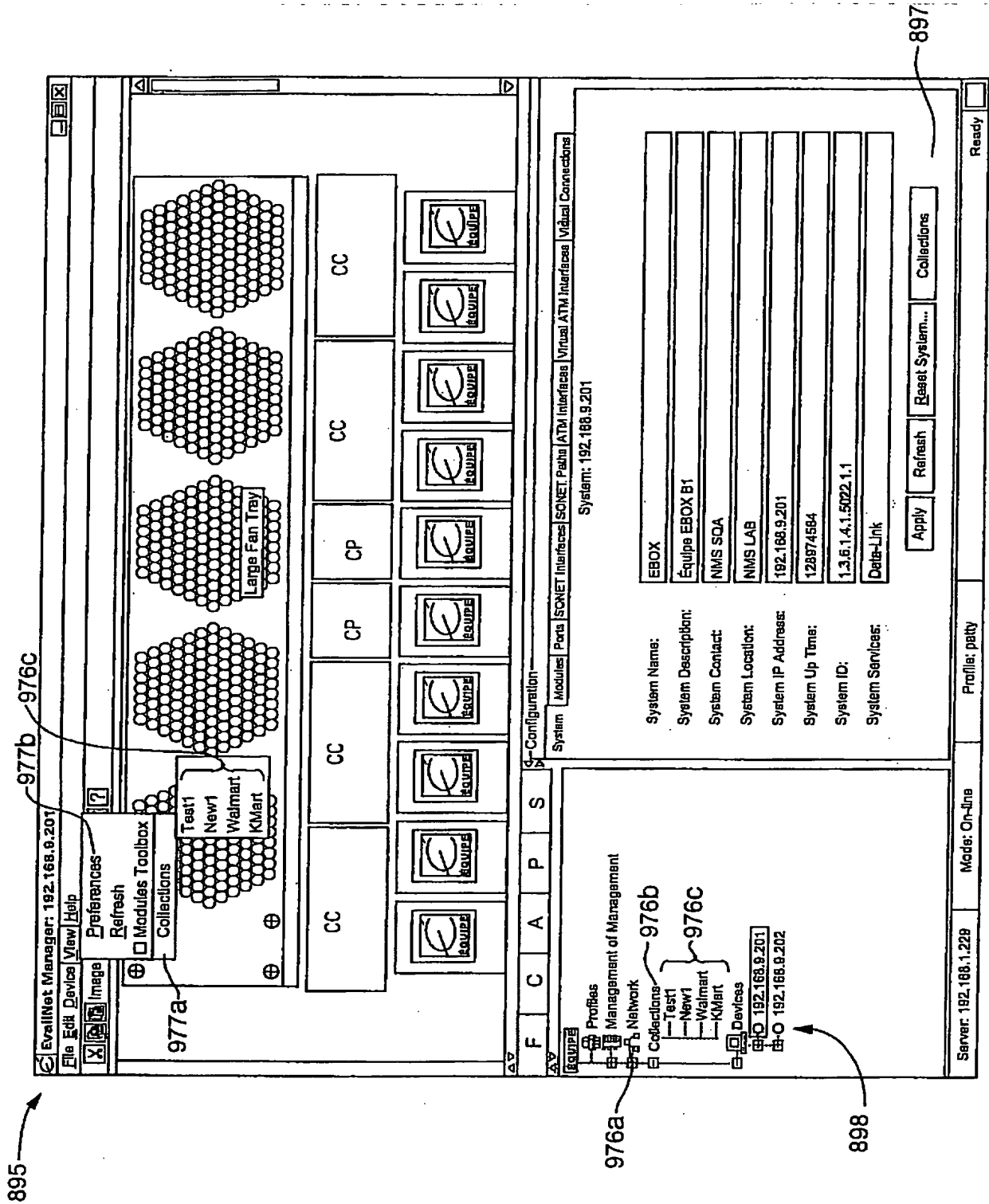
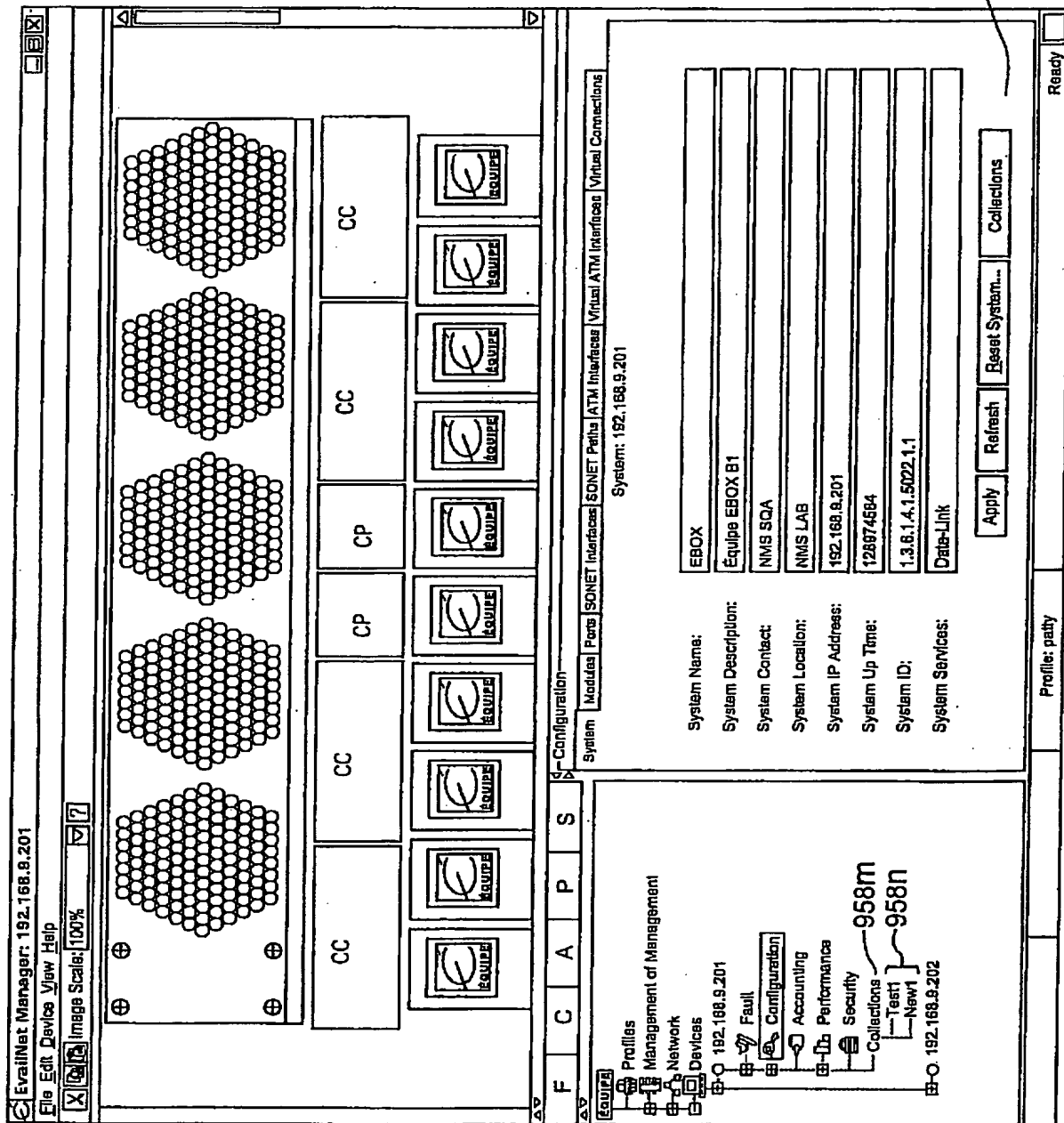


FIG. 10A



895



897

FIG. 10B

895

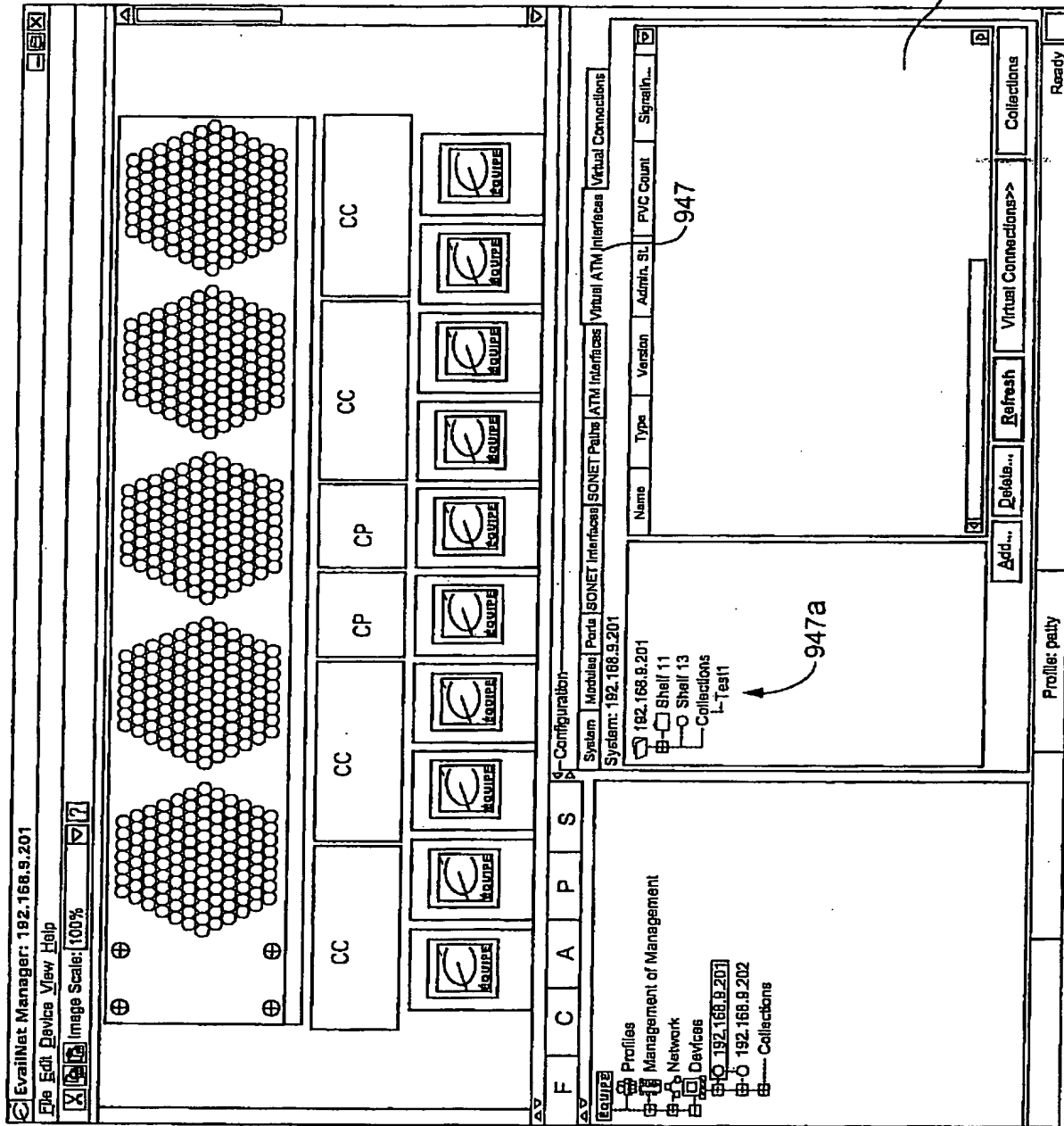


FIG. 10C

|      |                   |
|------|-------------------|
| 979D | Add to Collection |
| 979C | New Collection    |

Collection Name:

FIG. 10E

**Existing Collections:**  
Test1  
New1  
Walmart  
Kmart

FIG. 10F

979d-

895

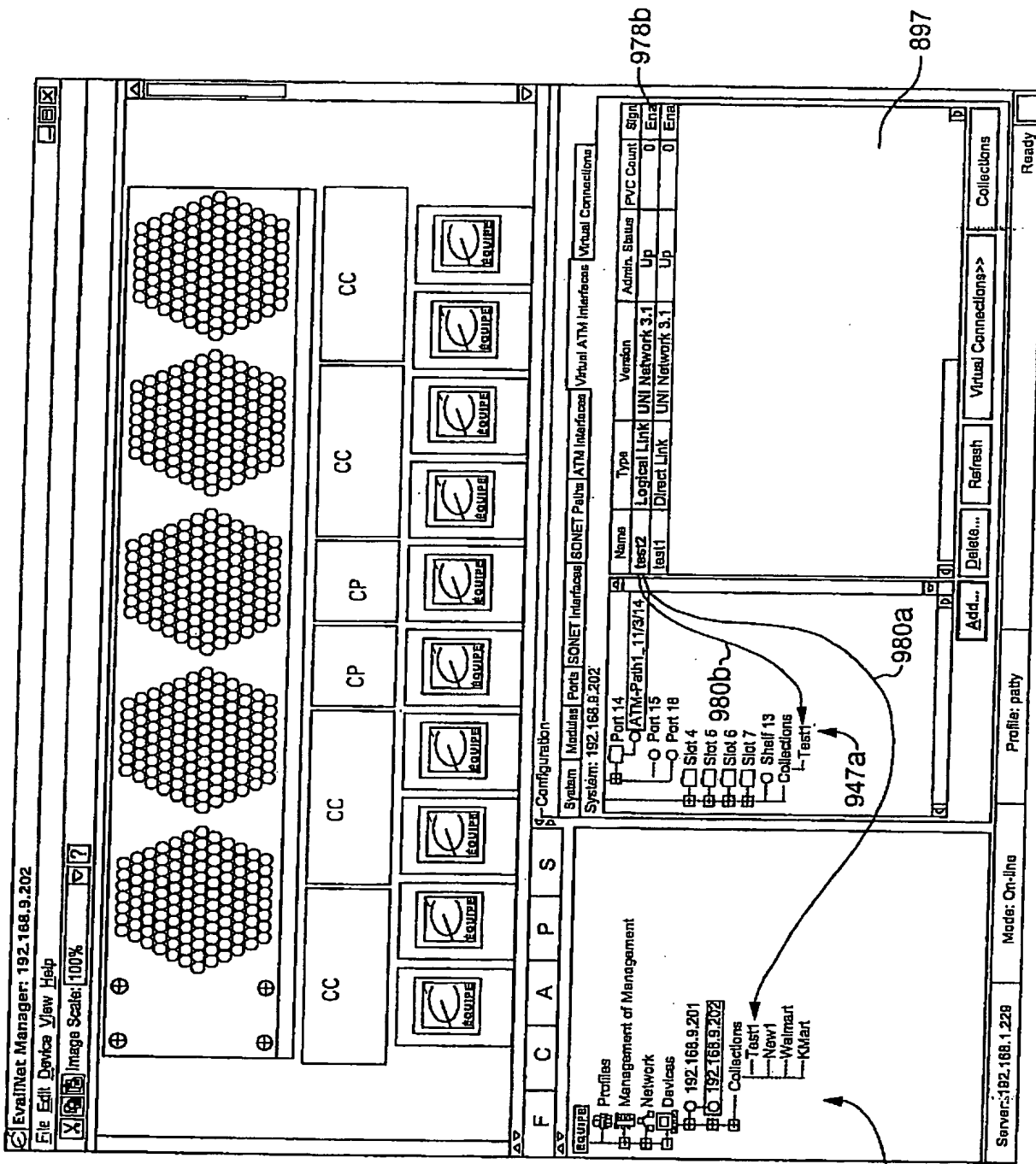


FIG. 10G

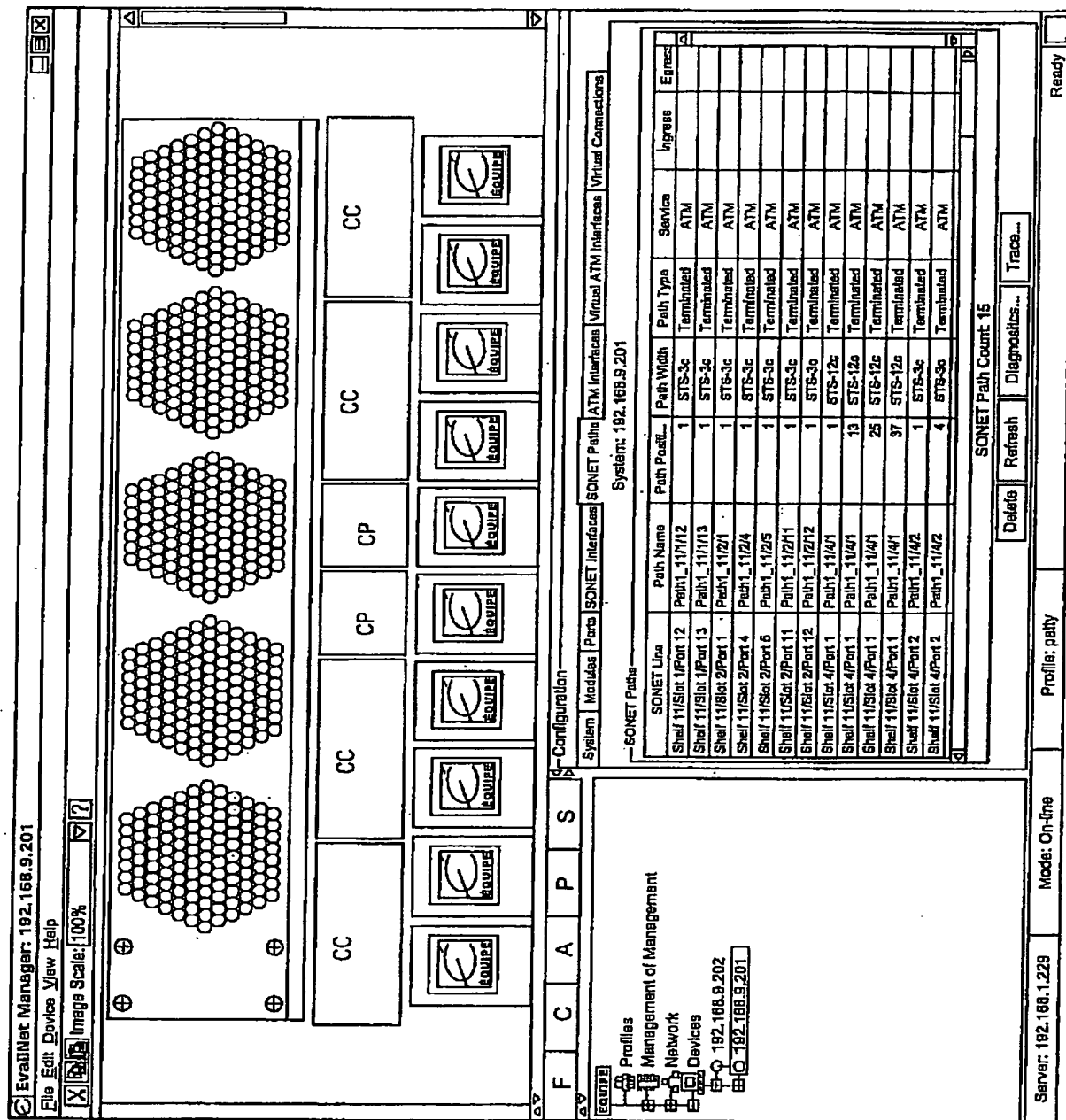


FIG. 10H

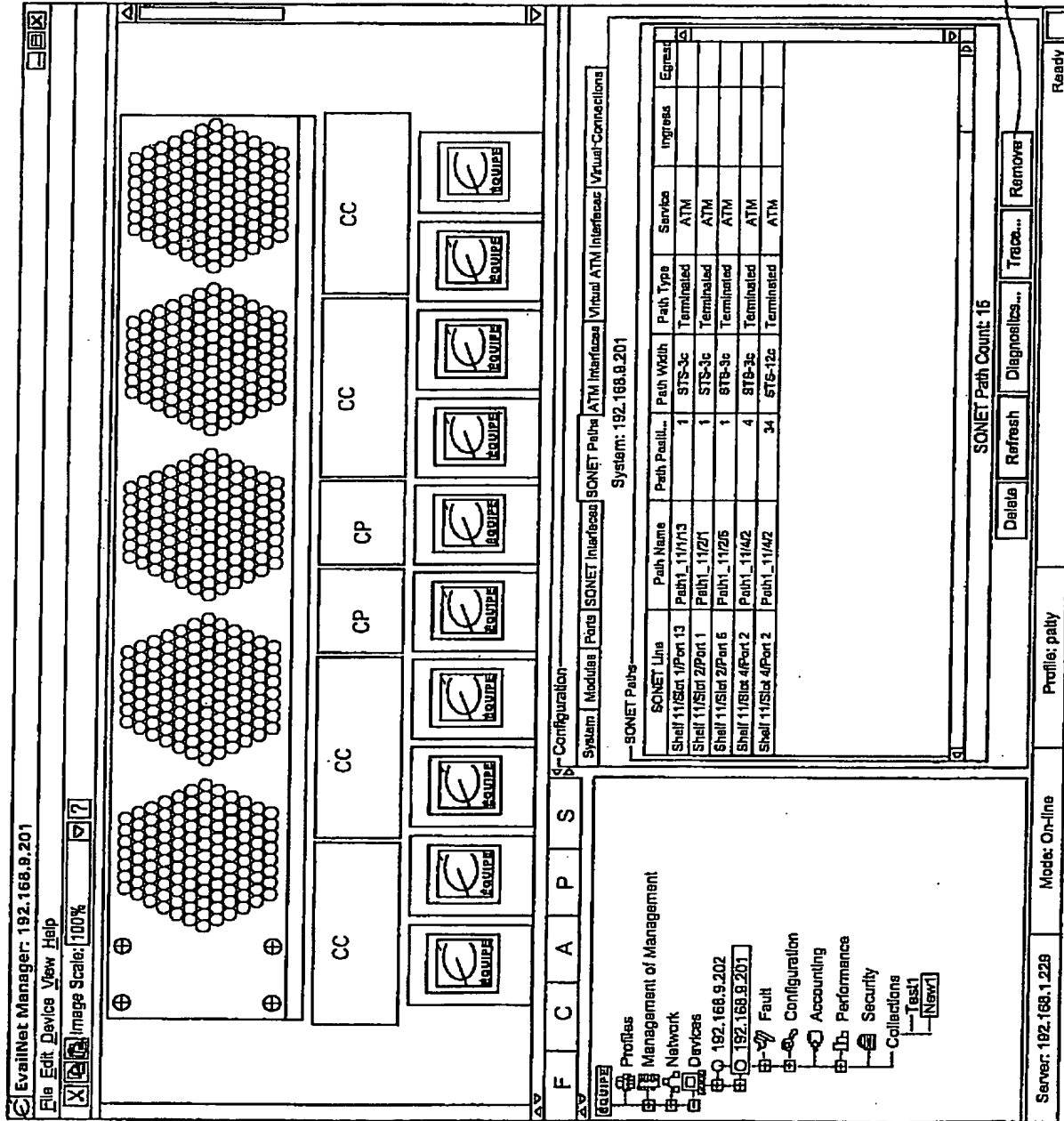


FIG. 101

903

Profiles

System: 192.132.60.150

Profile Manager

| Name  | Description    | Security Level | Timeout | Primary Server     | Secondary Server         |
|-------|----------------|----------------|---------|--------------------|--------------------------|
| Joe   | Joe Whitehouse | Admin          | 15      | 192.168.1.32       | 192.168.1.32             |
| Wayne | Wayne Arena    | Provisioner    | 15      | TeamServer1:192... | TeamServer2:192.168.1.32 |

Add

Delete...

Refresh

Copy

904

905

906

FIG. 11A

907

General

Username: Kevin 908a

Description: Kevin Snow user account 908e

Group Name: Equipe 908f

Group Level Access: ☒ 908d

Password: \*\*\*\*\* 908b

Confirm Password: \*\*\*\*\* 908c

Policies

☒ User Cannot Change Password 908h

☐ Account Disabled 908i

☒ User Can Add Devices 908j

User Session Timeout:  908k Minutes

TO  
FIG. 11B CONTINUED

FIG. 11B



FROM  
FIG. 11B

Servers

|                        |               |
|------------------------|---------------|
| Primary Server:        | 192.168.1.220 |
| Primary Server Port:   | 6500          |
| Secondary Server:      | 192.168.1.221 |
| Secondary Server Port: | 6503          |

Devices

| Device        | READ   | READ/WRITE | Retry | Timeout |
|---------------|--------|------------|-------|---------|
| 192.168.9.202 | public | equipe     | 3     | 3       |
| 192.168.9.205 | public | equipe     | 3     | 3       |
| 192.168.9.216 | public | equipe     | 3     | 3       |

Add Delete

OK Cancel

FIG. 11B CONTINUED

General

Policies

Servers

Devices

Primary Server:

Primary Server Port:

Secondary Server:

Secondary Server Port:

192.168.1.220

6500

192.168.1.205

6503

908t

OK

Cancel

FIG. 11C

General

Policies

Servers

Devices

| Device        | READ   | READ/WRITE | Retry | Timeout | Trap Port |
|---------------|--------|------------|-------|---------|-----------|
| 192.168.9.202 | public | equipe     | 3     | 3       | 162       |
| 192.168.9.205 | public | equipe     | 3     | 3       | 162       |
| 192.168.9.216 | public | equipe     | 3     | 3       | 5012      |

Add

Delete

908t

OK

Cancel

FIG. 11D

General

Policies

Servers

Devices

Username:

Description:

Customer Name:

Group Level Access:

Password:

Confirm Password:

Kevin

Kevin Snow user account

Equipe

\*\*\*\*\*

\*\*\*\*\*

908t

OK

Cancel

FIG. 11E

General

Policies

Servers

Devices

☐ User Cannot Change Password

☐ Account Disabled

☒ User Can Add DeVICES

User Session Timeout:

15

Minutes

908t

OK

Cancel

FIG. 11F

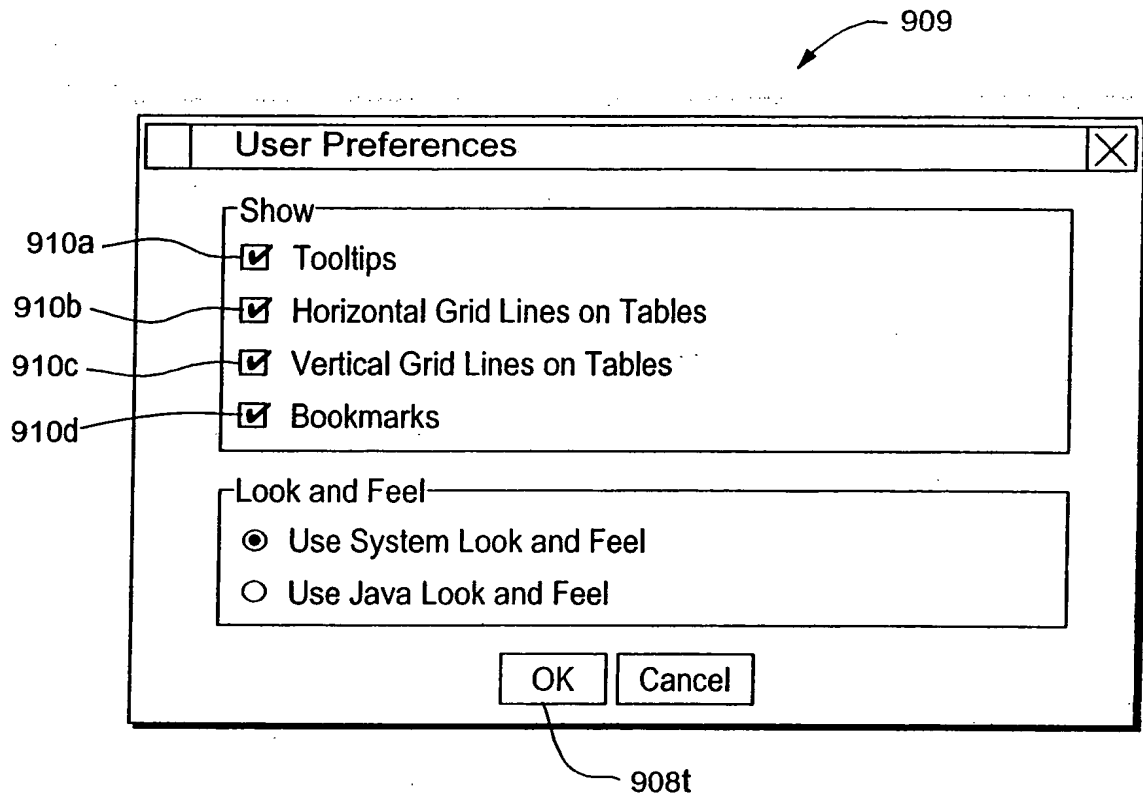


FIG. 11G

907

General

Username: Kevin 908a

Description: Kevin Snow user account 908e

Group Name: Equipe 908f

Group Level Access: ☒ 908d

Password: \*\*\*\*\* 908b

Confirm Password: \*\*\*\*\* 908c

Policies

☒ User Cannot Change Password 908h

☐ Account Disabled 908i

☒ User Can Add Devices 908j

User Session Timeout: 15 908k Minutes

TO

FIG. 11H CONTINUED

FIG. 11H

FROM  
FIG. 11H

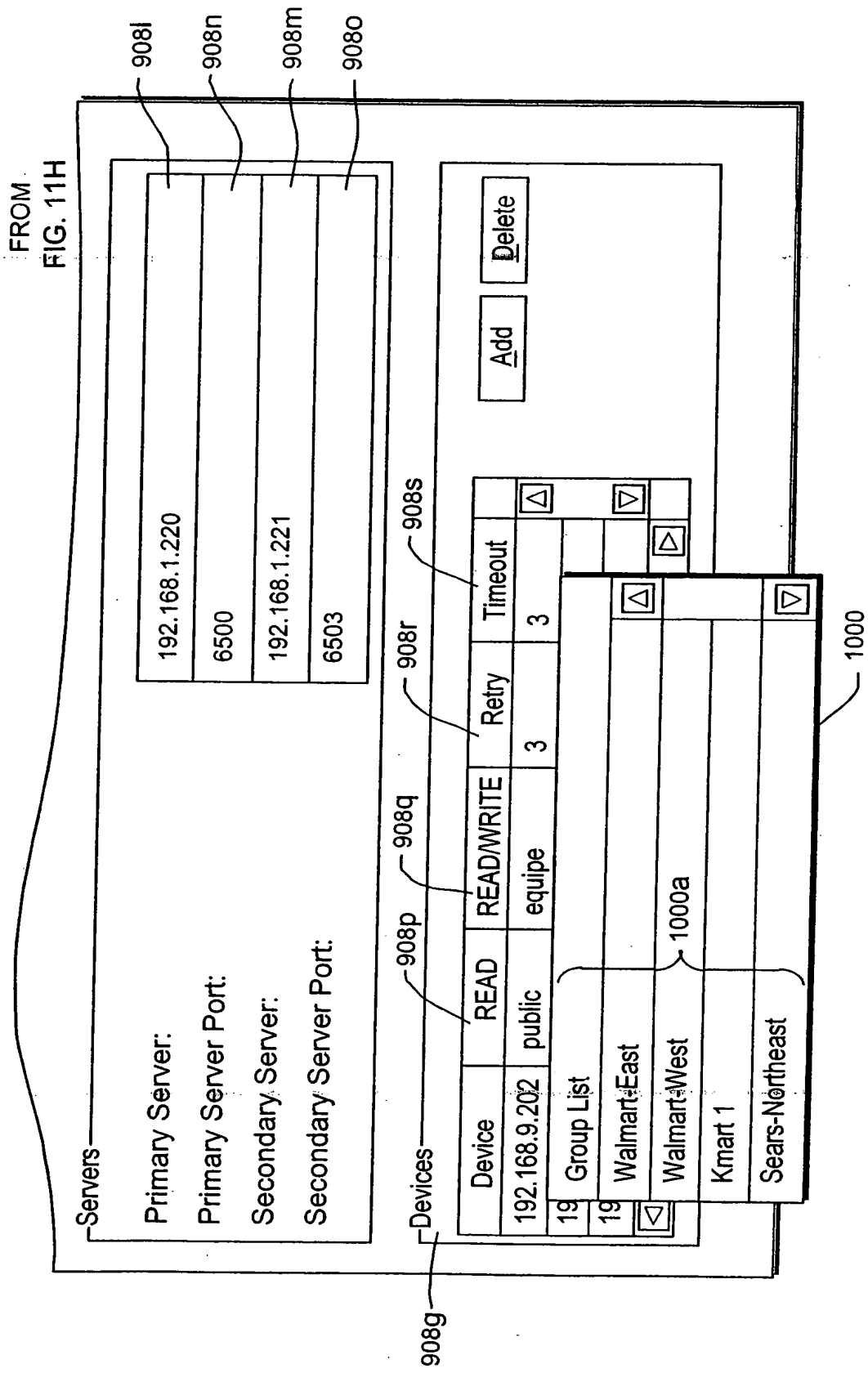


FIG. 11H CONTINUED



EvailNet Manager: SONET Path Configuration - 11/8/5

System: 192.168.9.201

SONET Line

Slot 8 Port 5 Type OC12

SONET Path Wizard

☒ Configure a single concatenated path (STS-12c)
 ☐ Configure
 ☐ Custom Configuration

4

STS-3c

paths

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne. |
|------------|--------------|-------------|----------|----------|--------|----------------|---------------|
| 11/8/5     | Path1_11/... | 1           | STS-12c  | Termin.  | ATM    |                |               |

Modify

Graphical Representation

Position

Width

1

STS-12C

Group Name:

OK

Cancel

FIG. 11I

1002

EvailNet Manager: SONET Path Configuration - 11/8/5

X

SONET Line

System: 192.168.9.201

Graphical Representation

Position

Width

1

4

7

10

STS-3C

STS-3C

STS-3C

STS-3C

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)

☒ **Configure**

4

STS-3C

paths

☐ Custom Configuration

Path Table

| SONET Line | Path Name    | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne. |
|------------|--------------|-------------|----------|----------|--------|----------------|---------------|
| 11/8/5     | Path1_11/8/5 | 1           | STS-3c   | Termin.  | ATM    |                |               |
| 11/8/5     | Path2_11/8/5 | 4           | STS-3c   | Termin.  | ATM    |                |               |
| 11/8/5     | Path3_11/8/5 | 7           | STS-3c   | Termin.  | ATM    |                |               |
| 11/8/5     | Path4_11/8/5 | 10          | STS-3c   | Termin.  | ATM    |                |               |

1002e

Modify

Group Name:

1002d

OK

Cancel

1002b

1002c

1002a

FIG. 11J

**EvailNet Manager: SONET Path Configuration - 11/8/5**

SONET Line

System: 192.168.9.201

Slot

8

Port

5

Type

OC12

SONET Path Wizard

☐ Configure a single concatenated path (STS-12c)
 ☐ Configure
 ☒ Custom Configuration

4

paths

STS-3c

Functions

Available SONET Paths

STS-3c

Add>

<Remove

<<Clear

Allocated SONET Paths

STS-3c

STS-3c

STS-3

STS-3

↑

↓

Path Table

| SONET Line | Path Name    | Path Position | Path Width | Path Type  | Service | Ingress Co... | Egress Co... |
|------------|--------------|---------------|------------|------------|---------|---------------|--------------|
| 11/8/5     | Path1_11/8/5 | 1             | STS-3c     | Terminated | ATM     |               |              |
| 11/8/5     | Path2_11/8/5 | 4             | STS-3c     | Terminated | ATM     |               |              |
| 11/8/5     | Path3_11/8/5 | 7             |            | Terminated | ATM     |               |              |

1002e

Modify

Graphical Representation

Position

Width

1

STS-3c

4

STS-3c

1002a

1002d

OK

Cancel

Group Name

1002b 1002c

FIG. 11K

MANAGED RESOURCE GROUP TABLE 1008

| LID  | MANAGED<br>DEVICE PID | GROUP NAME   |
|------|-----------------------|--------------|
| 1145 | 1                     | WALMART-EAST |
| ⋮    | ⋮                     | ⋮            |

FIG. 11L

MANAGED RESOURCE TABLE 1007

| LID  | RESOURCE<br>LID | MANAGE<br>RESOURCE<br>GROUP LID |
|------|-----------------|---------------------------------|
| 4443 | 901             | 1145                            |
| ⋮    | ⋮               | ⋮                               |

FIG. 11M

**Add V-ATM Interface - 192.168.9.201** [X]

Shelf/Slot/Port: 11/4/2 Path Name: Path2\_11/4/2 1004

Virtual ATM Interface Parameters

|                  |   |
|------------------|---|
| Name (Alias):    | <input type="text"/>  |
| Connection Type: | Direct Link <input type="button" value="v"/>                |
| Version:         | UNI Network 3.1 <input type="button" value="v"/>            |
| Admin. Status:   | Up <input type="button" value="v"/>                         |
| Group Name:      | <input type="text"/> <input type="button" value="v"/> 1004b |

1004a

OK Cancel 1004c

1004c

FIG. 11N

Source: 192.168.9.201      Destination: 192.168.9.201

End Point 1

- 192.168.9.201
  - Shelf 11
    - Slot 1
    - Slot 2
    - Slot 3
    - Slot 4
      - Port 1
      - Port 2
        - ATM-Path2\_11/4/2

End Point 1

- 192.168.9.201
  - Shelf 11
    - Shelf 13

Connection Parameters

Connection Name:

Admin Status:  1006b ▾

Group Name:  Group List

End Point 1 Parameters:

VPI:  ☐ Use Any VPI Value

VCI:  ☐ Use Any VCI Value

Transmit Traffic Descriptor:  ▾ Add Traffic Descriptor...

Receive Traffic Descriptor:  ▾

☐ Use the same Traffic Descriptor for both Transmit and Receive

End Point 2 Parameters:

VPI:  ☐ Use Any VPI Value

VCI:  ☐ Use Any VCI Value

Transmit Traffic Descriptor:  ▾ Add Traffic Descriptors...

Receive Traffic Descriptor:  ▾

☐ Use the same Traffic Descriptor for both Transmit and Receive

<Back Finish Cancel

1006c

FIG. 110

USER TABLE 1010

|       |       |          |          |                    |       |
|-------|-------|----------|----------|--------------------|-------|
| 1010a | 1010b |          | 1010c    | 1010d              | 1010e |
|       | LID   | USERNAME | PASSWORD | GROUP LEVEL ACCESS |       |
|       | 2012  | DAVE     | MARBLE   | PROVISIONER        |       |
|       | ⋮     | ⋮        | ⋮        |                    |       |

FIG. 11P

USER MANAGED DEVICE TABLE 1012

|       |       |          |          |       |         |
|-------|-------|----------|----------|-------|---------|
| 1012a | 1012b |          | 1012c    | 1012d | 1012e   |
|       | LID   | USER LID | HOST LID | RETRY | TIMEOUT |
|       | 7892  | 2012     | 9046     |       |         |
|       | ⋮     | ⋮        | ⋮        | ⋮     | ⋮       |

FIG. 11Q

ADMINISTRATION MANAGED DEVICE TABLE 1014

| LID  | HOST ADDRESS  | PORT ADDRESS | RETRY | TIMEOUT | ADMIN. PASSWORD | PROV. PASSWORD | VIEWER PASSWORD |
|------|---------------|--------------|-------|---------|-----------------|----------------|-----------------|
| 9046 | 192.168.9.202 | 1521         |       |         | TEAM 1          | TEAM 2         | TEAM 3          |
| .    | .             | .            | .     | .       | .               | .              | .               |
| .    | .             | .            | .     | .       | .               | .              | .               |
| .    | .             | .            | .     | .       | .               | .              | .               |

FIG. 11R



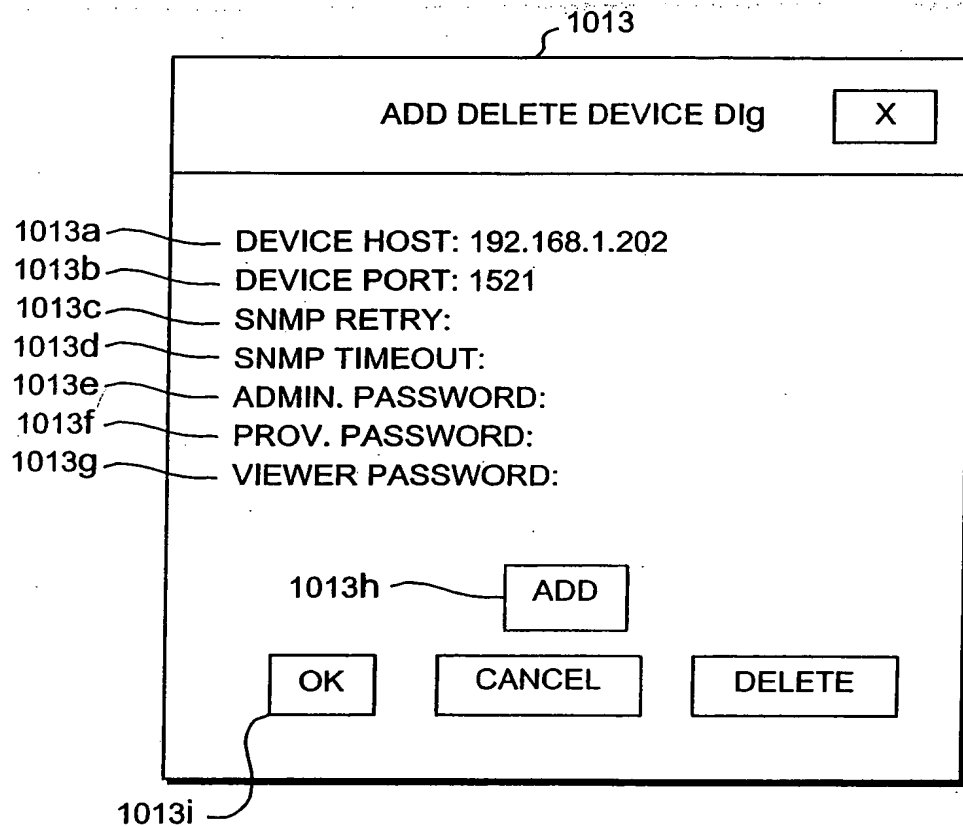


FIG. 11S

USER RESOURCE GROUP MAP TABLE 1016

| LID  | USER LID | USER RESOURCE GROUP LID |
|------|----------|-------------------------|
| 8086 | 2012     | 1024                    |
| ⋮    | ⋮        | ⋮                       |

FIG. 11T

USER RESOURCE GROUP TABLE 1018

| LID  | HOST LID | GROUP NAME   |
|------|----------|--------------|
| 1024 | 9046     | WALMART-EAST |
| ⋮    | ⋮        | ⋮            |

FIG. 11U

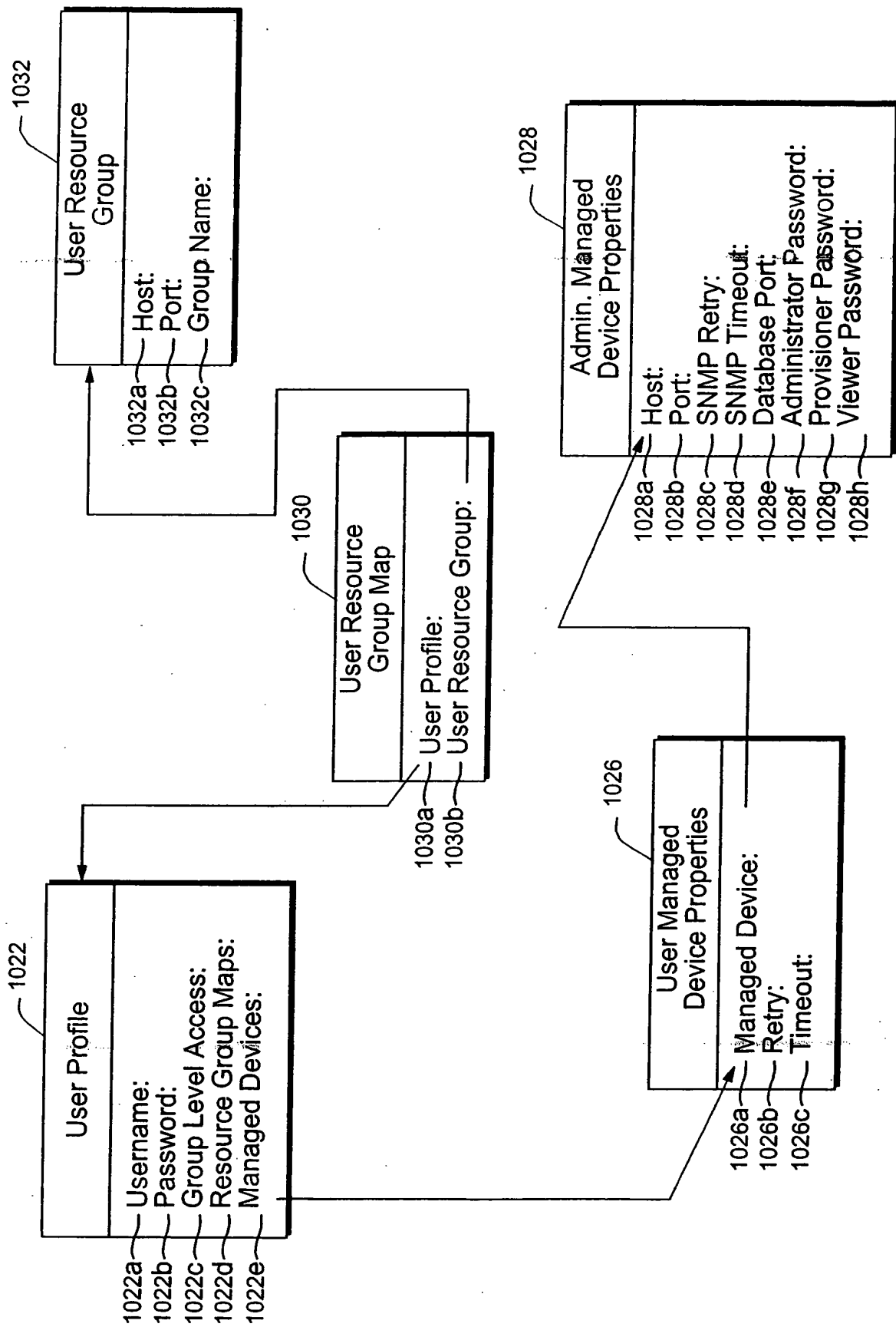


FIG. 11V

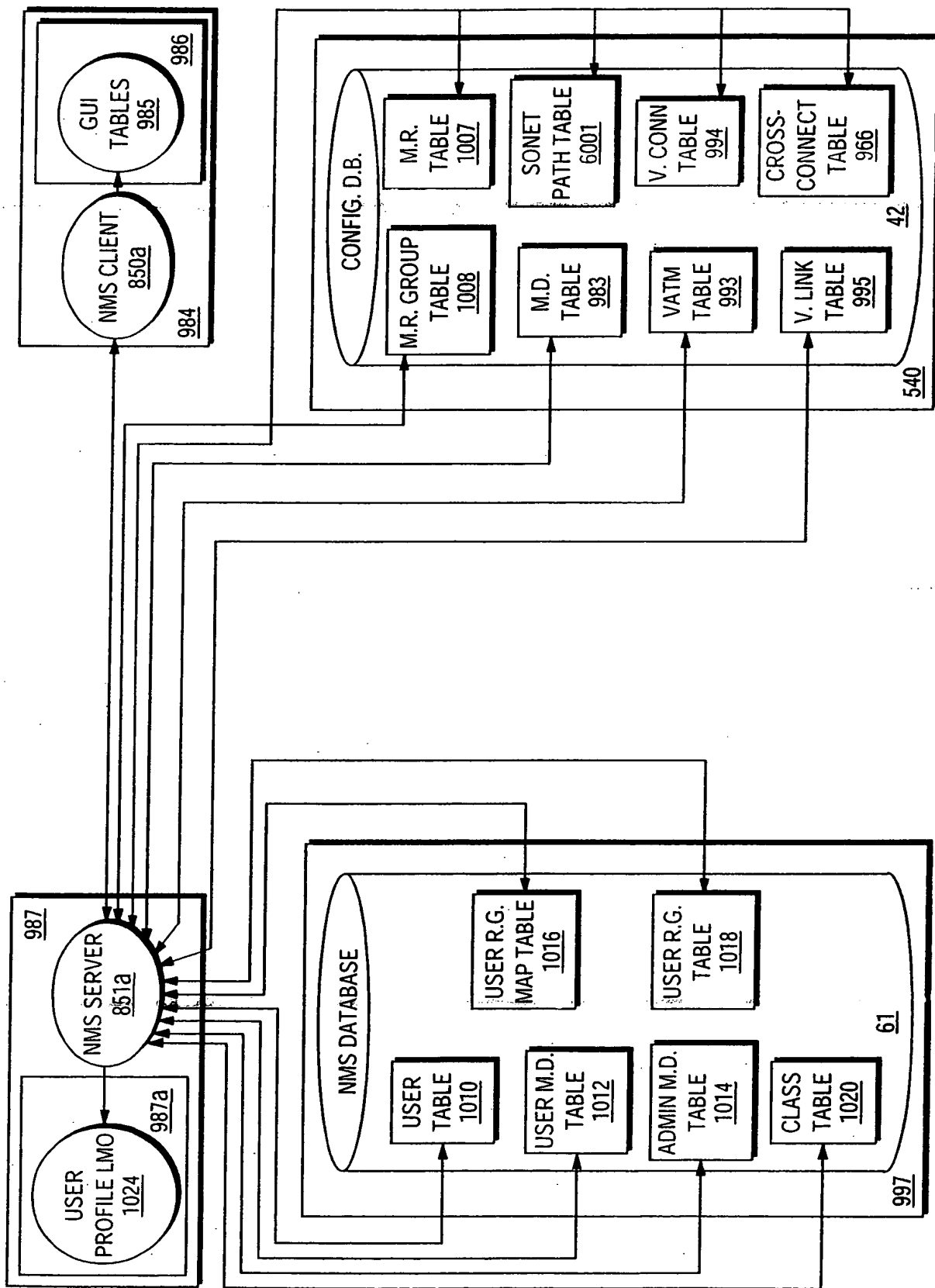


FIG. 11W

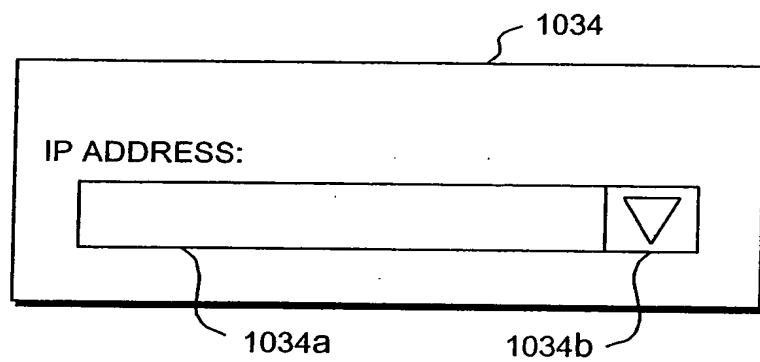


FIG. 11X

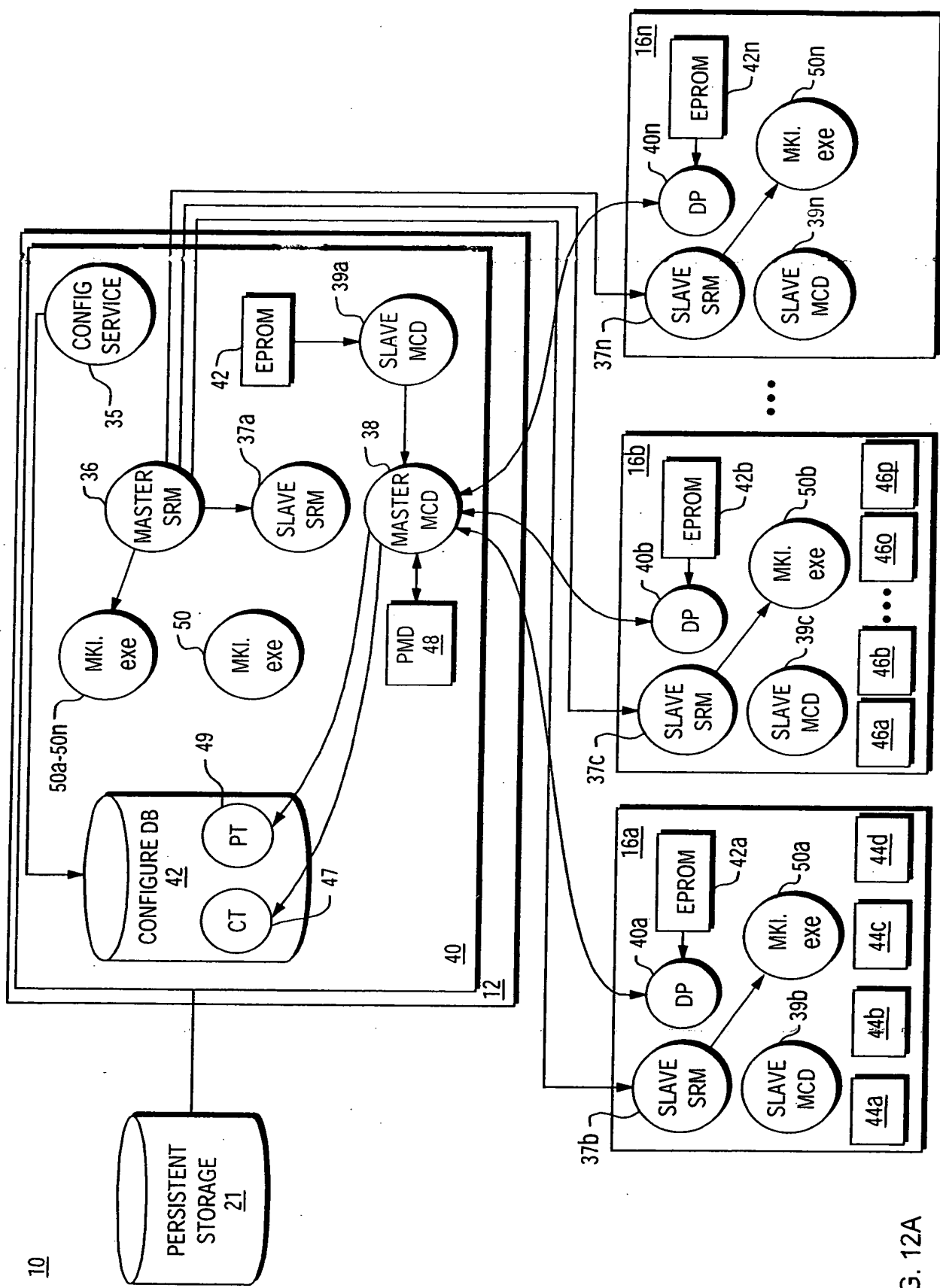


FIG. 12A

CARD TABLE 47

|     | PID | CWD TYPE | VERSION NO. | SLOT NO. | ... |
|-----|-----|----------|-------------|----------|-----|
| 16a | 500 | 0XF002   | 3           | 1        |     |
| 16b | 501 | 0XF002   | 4           | 2        |     |
|     | ⋮   | ⋮        | ⋮           | ⋮        | ⋮   |
| 16e | 505 | 0X6002   | 1           | 5        |     |
|     | ⋮   | ⋮        | ⋮           | ⋮        | ⋮   |
| 16n | 513 | 0XF002   | 1           | 12       |     |
|     | ⋮   | ⋮        | ⋮           | ⋮        | ⋮   |

FIG. 12B

PORT TABLE 49

|     | PID  | PORT TYPE | VERSION NO. | SLOT NO. | ... |
|-----|------|-----------|-------------|----------|-----|
| 44a | 1500 | 00620     | 1           | 1        |     |
| 44b | 1501 | 00620     | 1           | 1        |     |
| 44c | 1502 | 00620     | 1           | 1        |     |
| 44d | 1503 | 00620     | 1           | 1        |     |
| 44a | 1504 | 00820     |             |          |     |
| 46a | ⋮    | ⋮         | ⋮           | ⋮        | ⋮   |
|     | 1600 | 00620     | 1           | 8        |     |
|     | ⋮    | ⋮         | ⋮           | ⋮        | ⋮   |

FIG. 12C



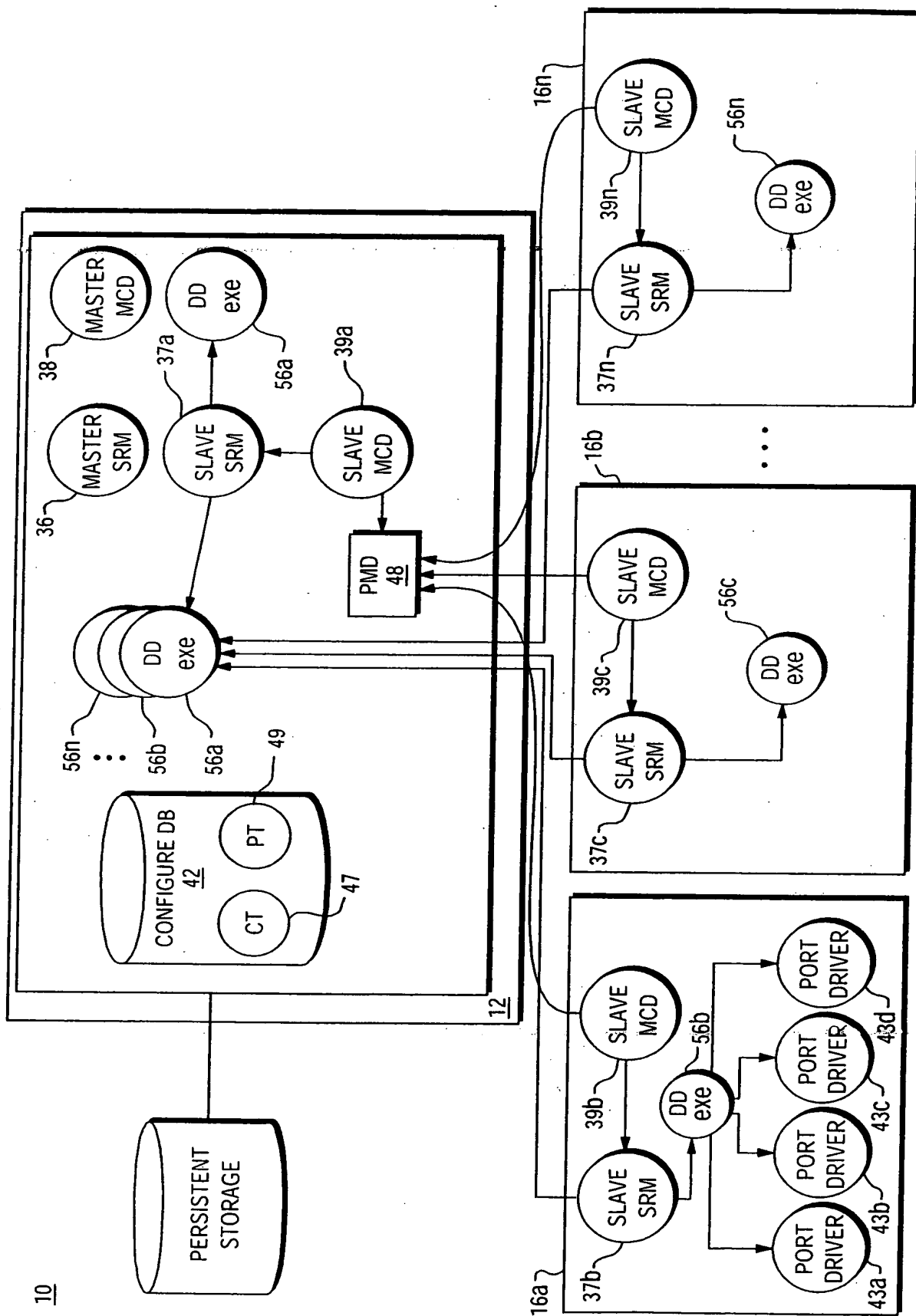


FIG. 13A

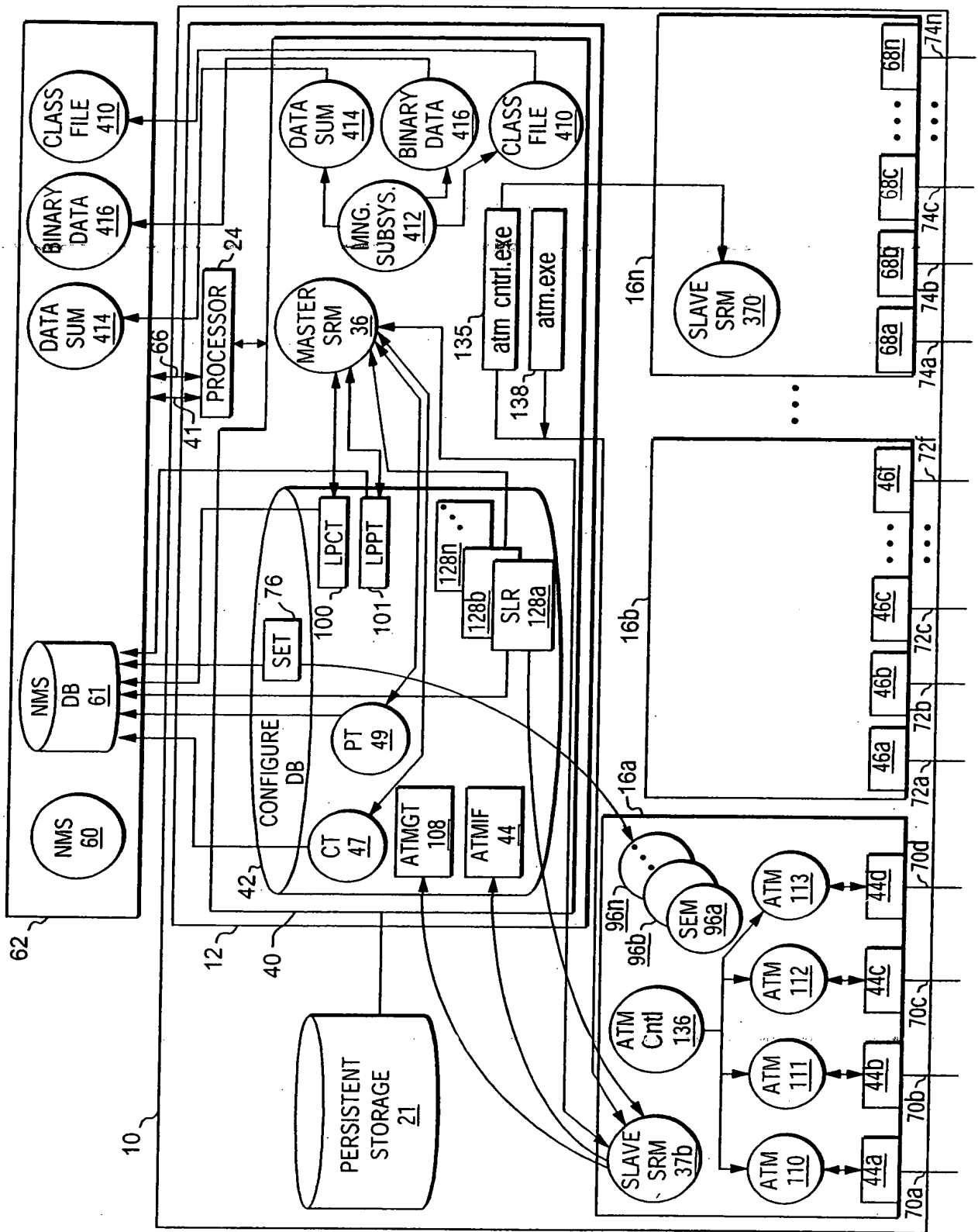


FIG. 13B

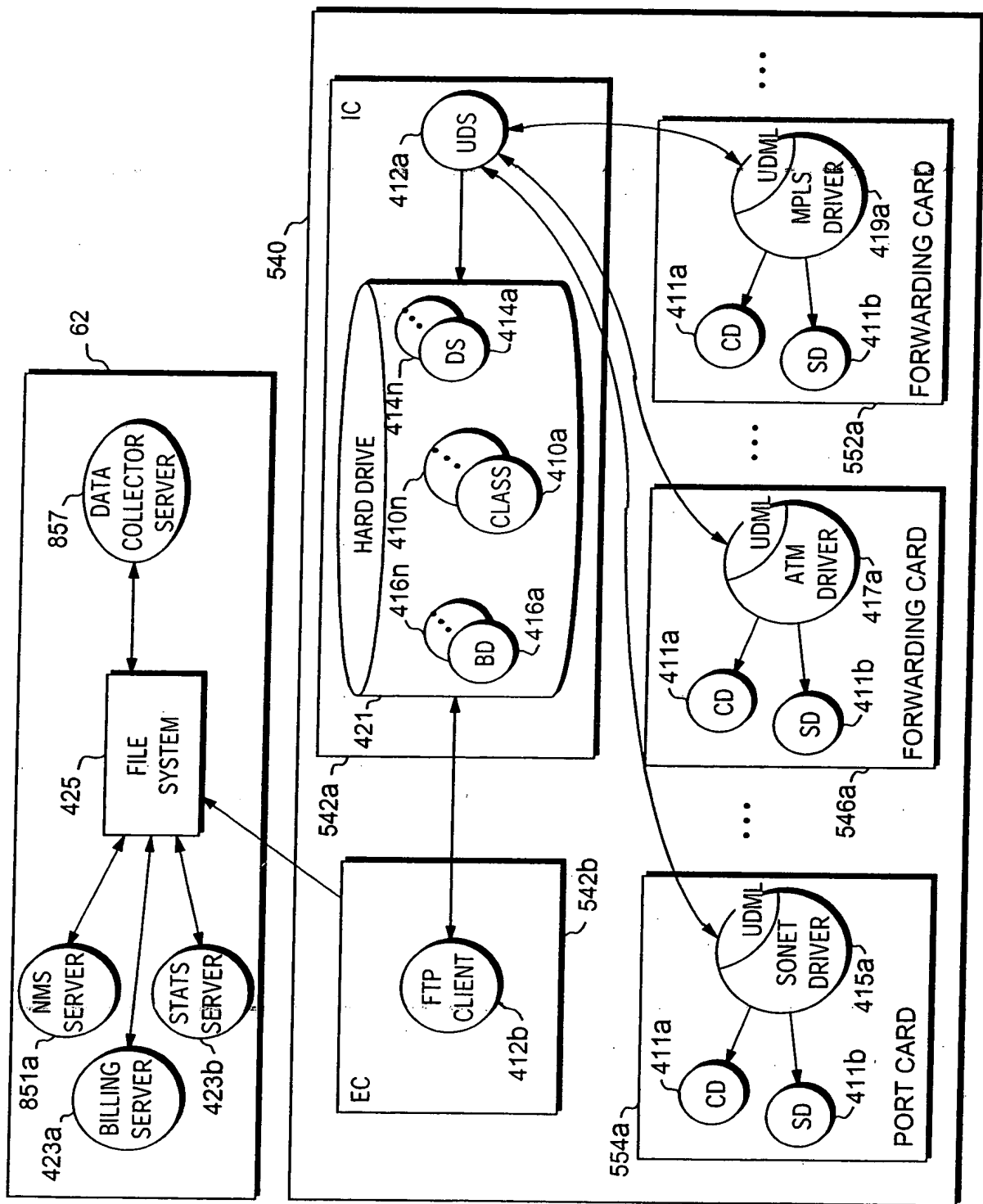


FIG. 13C

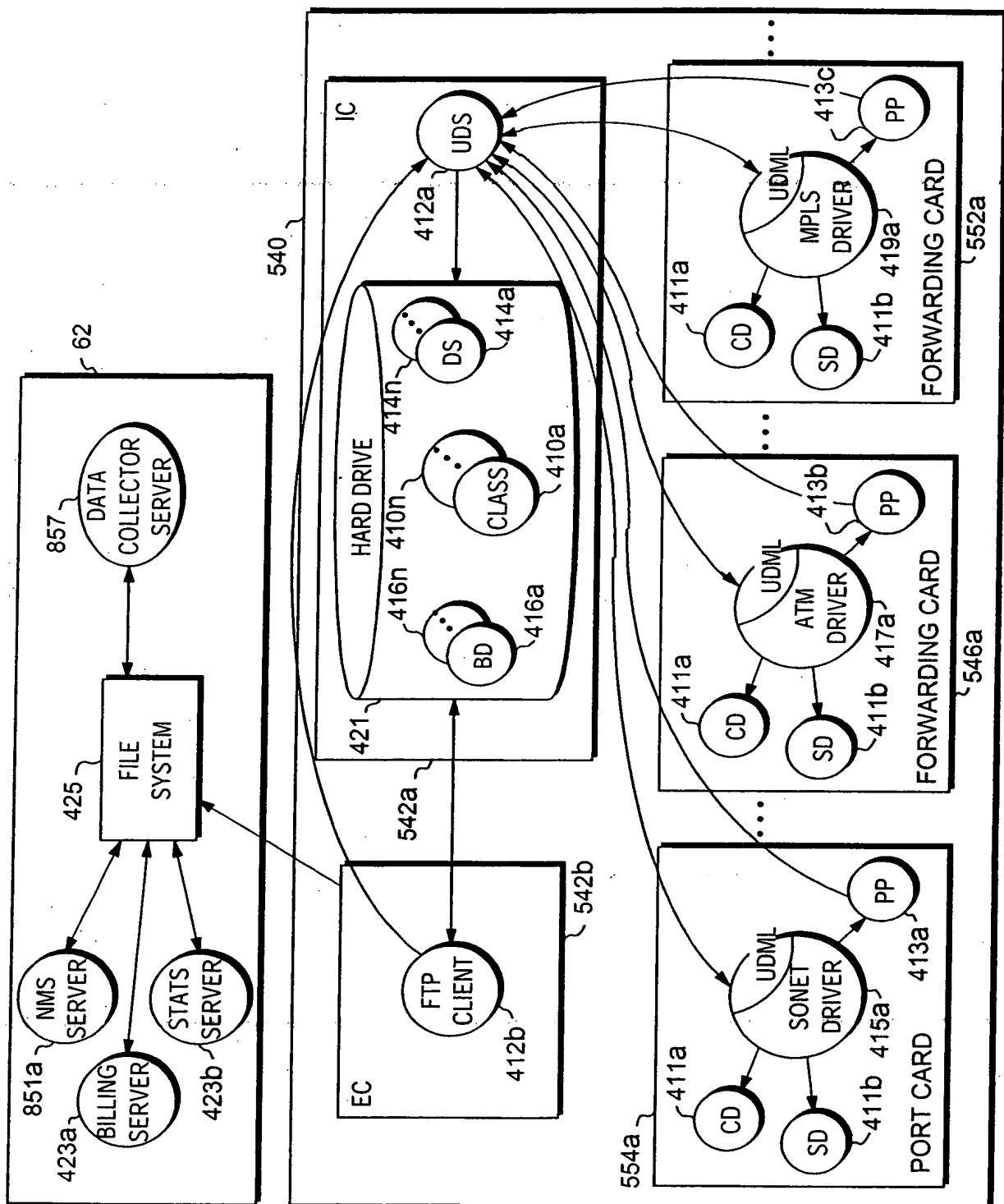


FIG. 13D

SERVICE ENDPOINT TABLE 76

|     | SERVICE<br>ENDPOINT # | PORT PID |
|-----|-----------------------|----------|
| 78  | 1                     | 1500     |
| 80  | 2                     | 1501     |
| 82  | 3                     | 1501     |
| 84  | 4                     | 1501     |
| 86  | 5                     | 1502     |
| 88  | 6                     | 1502     |
| 90  | 7                     | 1503     |
| 92  | 8                     | 1503     |
| 94  | 9                     | 1503     |
| 168 | 10                    | 1502     |
|     | ⋮                     | ⋮        |
|     | ⋮                     | ⋮        |

FIG. 14A

LOGICAL TO PHYSICAL CARD TABLE 100

|     | 98<br>LID | 102<br>PRIMARY<br>PID | 104<br>BACK-UP<br>PID |
|-----|-----------|-----------------------|-----------------------|
| 106 | 30        | 500                   | 513                   |
| 109 | 31        | 501                   | 513                   |
|     | ⋮         | ⋮                     | ⋮                     |
|     | ⋮         | ⋮                     | ⋮                     |
|     | ⋮         | ⋮                     | ⋮                     |

FIG. 14B

LOGICAL TO PHYSICAL PORT TABLE 101

|     | 98<br>LID | 102<br>PRIMARY<br>PID | 104<br>BACK-UP<br>PID |
|-----|-----------|-----------------------|-----------------------|
| 107 | 40        | 1500                  | 1600                  |
|     | ⋮         | ⋮                     | ⋮                     |
|     | ⋮         | ⋮                     | ⋮                     |
|     | ⋮         | ⋮                     | ⋮                     |

FIG. 14C

ATM GROUP TABLE 108

| GROUP # | CARD LID | ... |
|---------|----------|-----|
| 1       | 30       |     |
| 2       | 30       |     |
| 3       | 30       |     |
| 4       | 30       |     |

FIG. 14D

ATM INTERFACE TABLE 114

| ATM IF | ATM GROUP | SE | ... |
|--------|-----------|----|-----|
| 1      | 1         | 1  |     |
| 2      | 1         | 1  |     |
| 3      | 1         | 1  |     |
| 4      | 2         | 2  |     |
| 5      | 2         | 3  |     |
| 6      | 2         | 4  |     |
| ⋮      | ⋮         | ⋮  | ⋮   |
| 12     | 3         | 10 |     |
| ⋮      | ⋮         | ⋮  | ⋮   |

FIG. 14E

SOFTWARE LOAD RECORD 128a

|     |              |     |     |
|-----|--------------|-----|-----|
| 130 | CONTROL SHIM | LID | 132 |
| 134 | atm-cntl.exe | 30  |     |

FIG. 14F

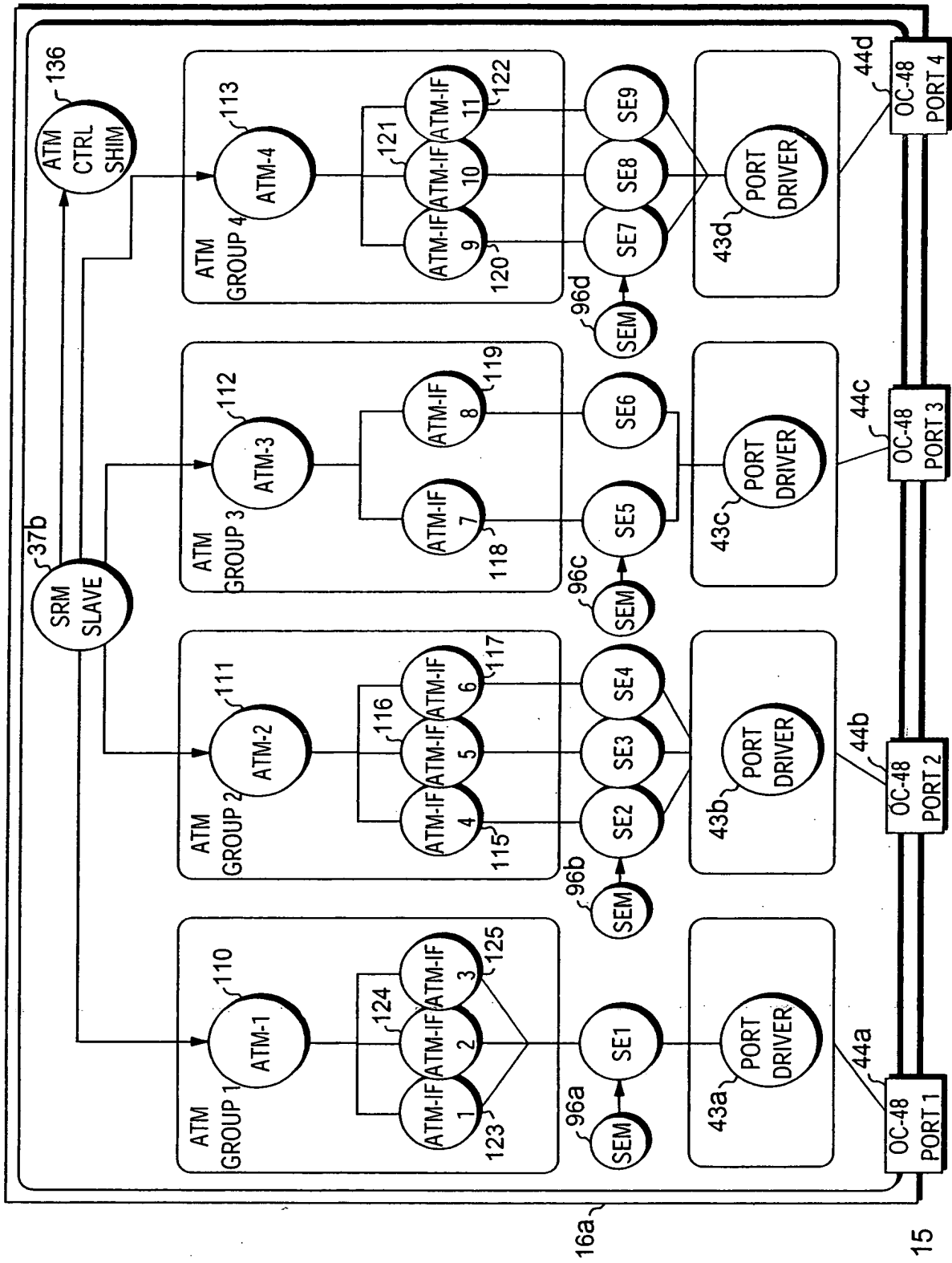


FIG. 15

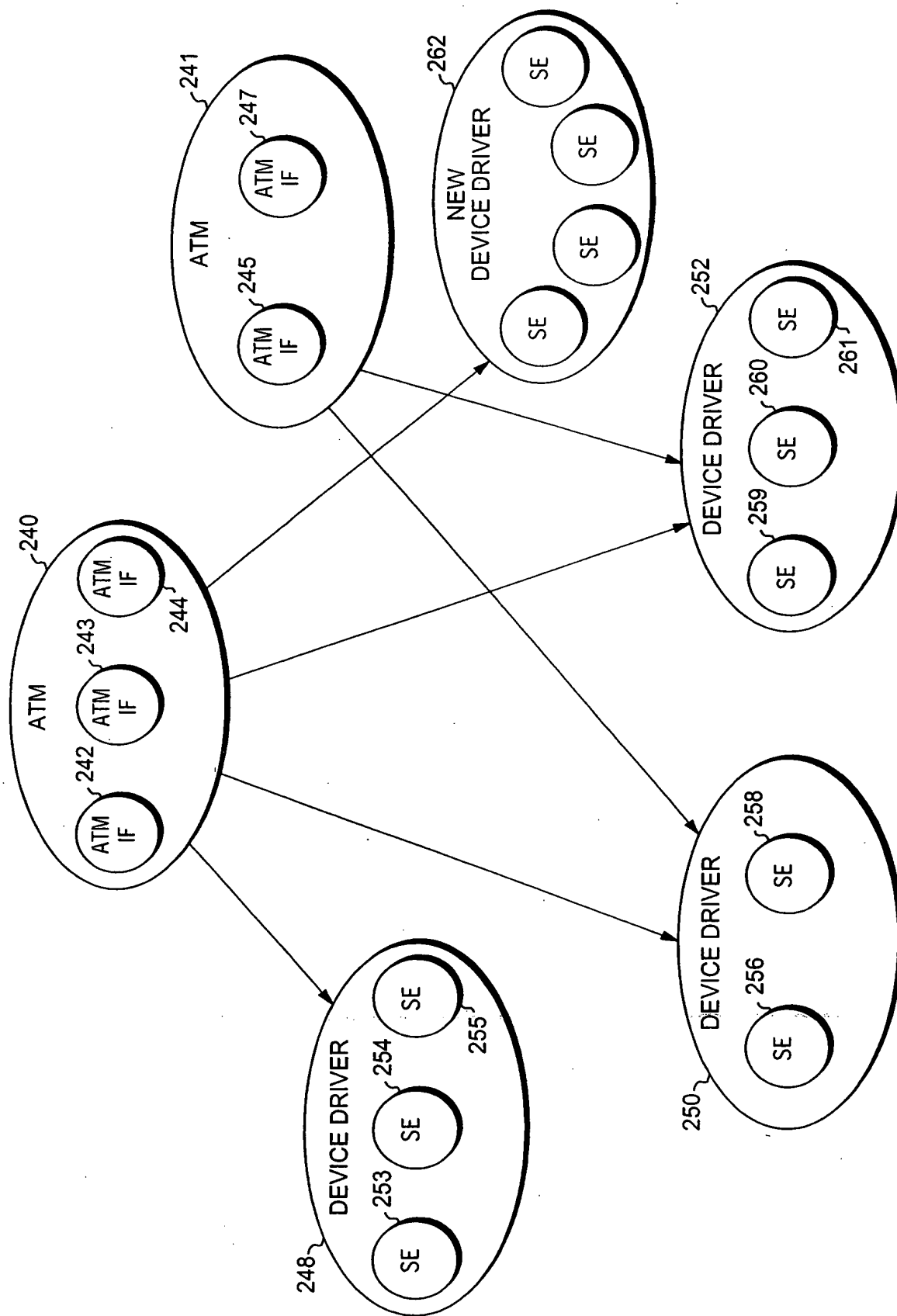


FIG. 16A



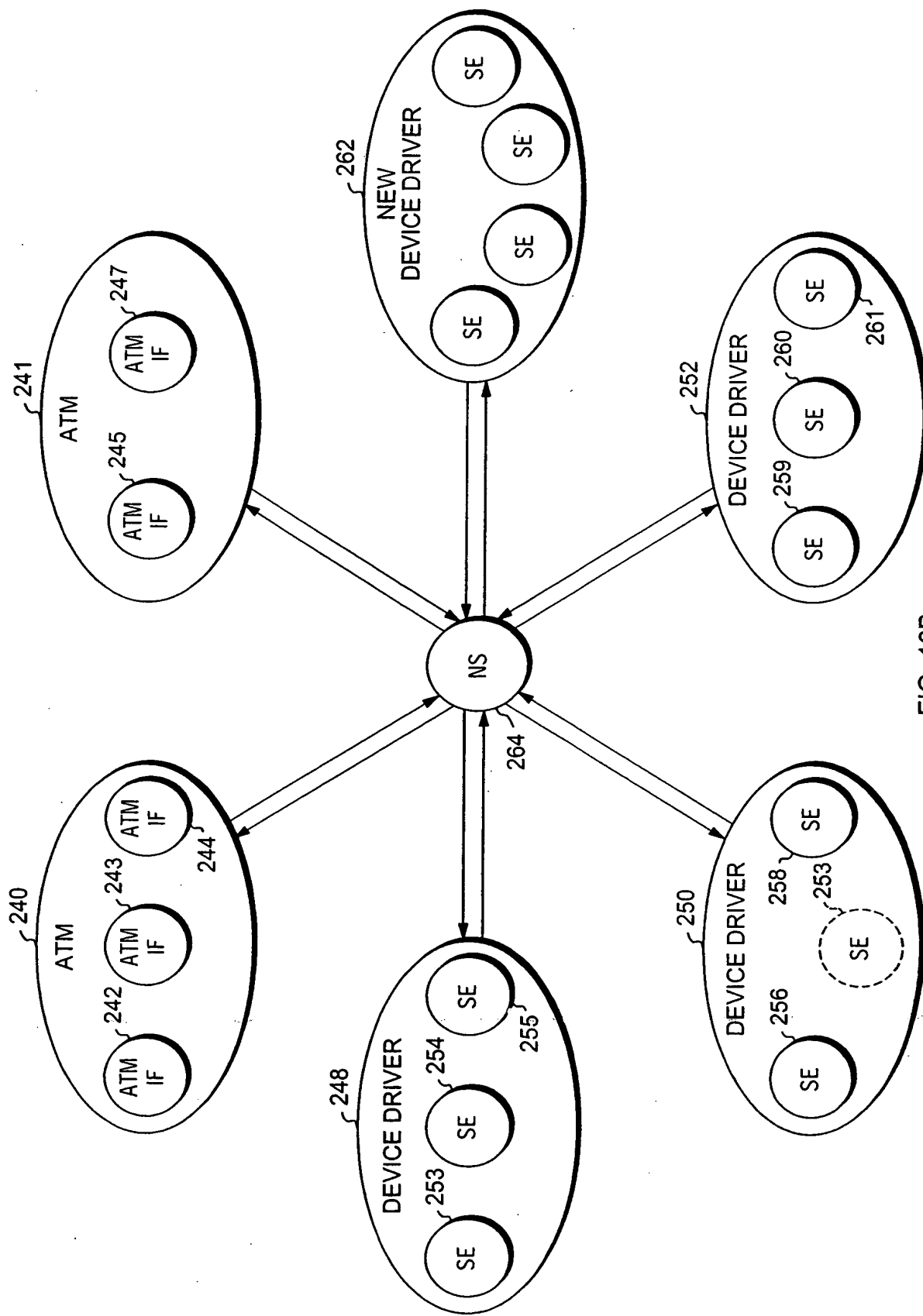


FIG. 16B

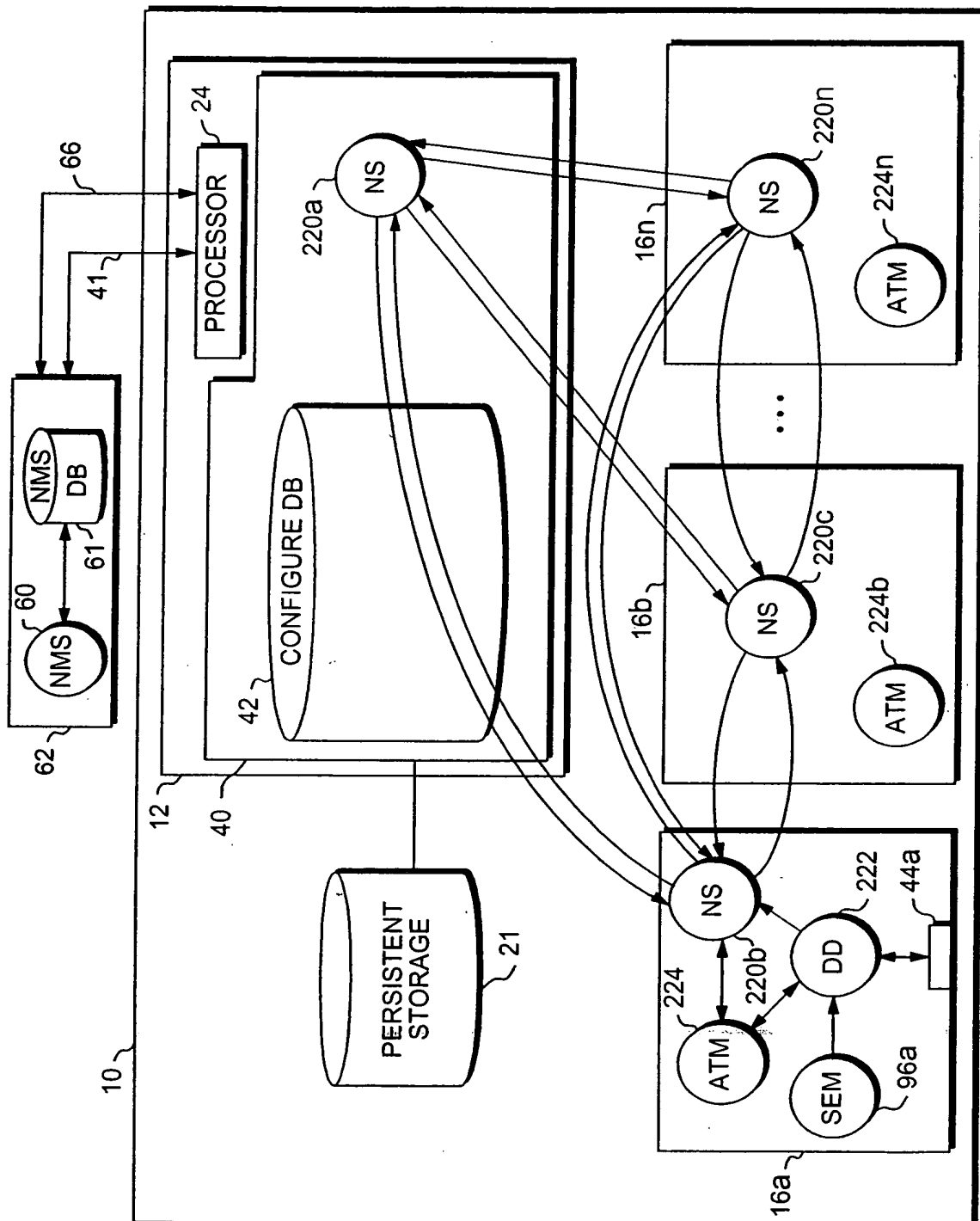


FIG. 16C

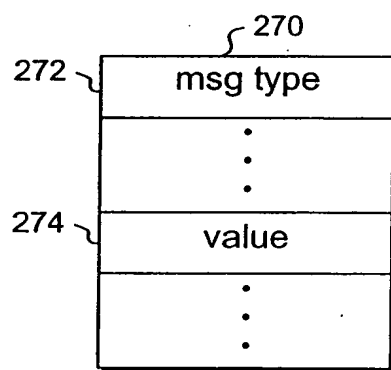


FIG. 16D

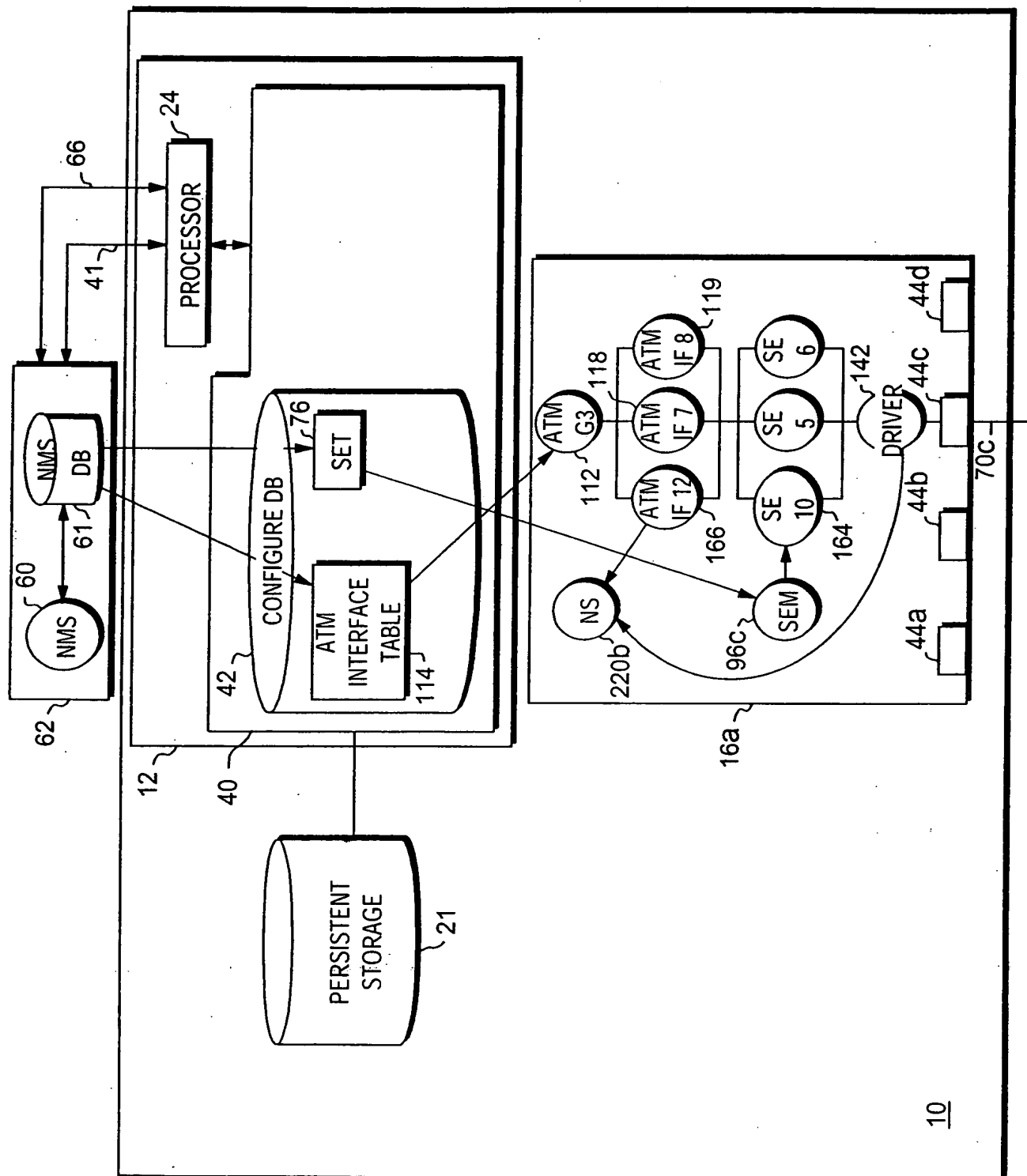


FIG. 17

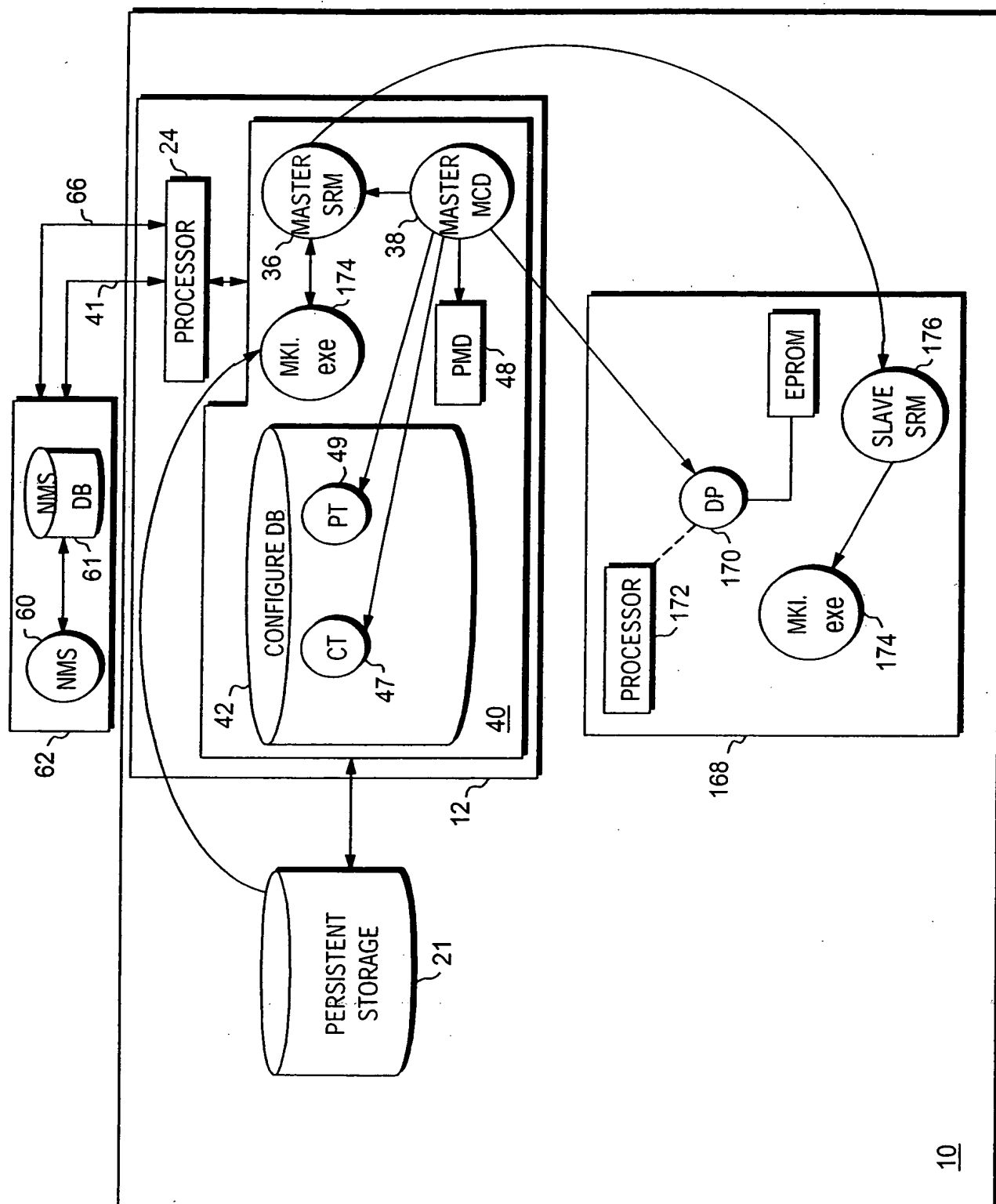


FIG. 18

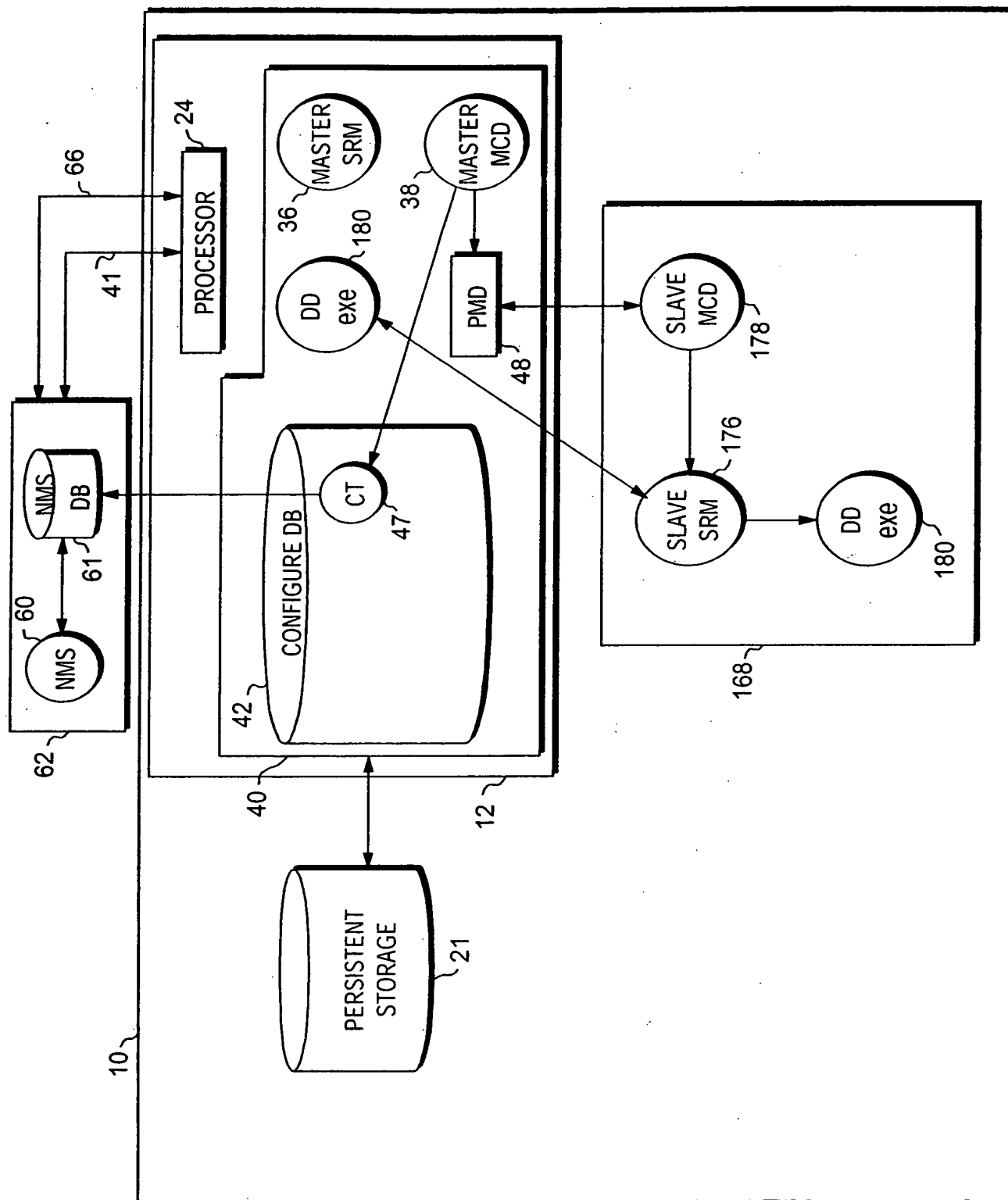


FIG. 19

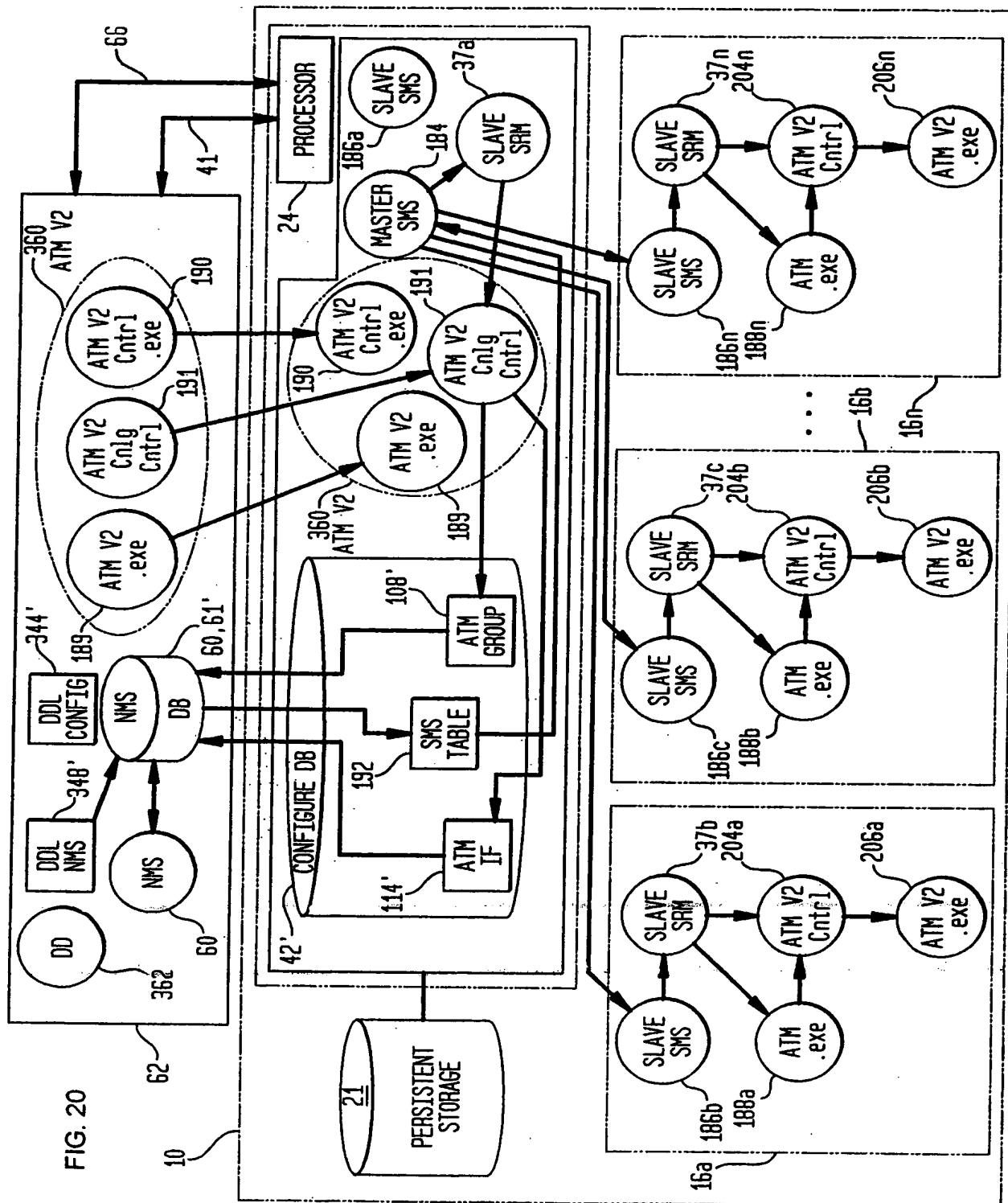


FIG. 21

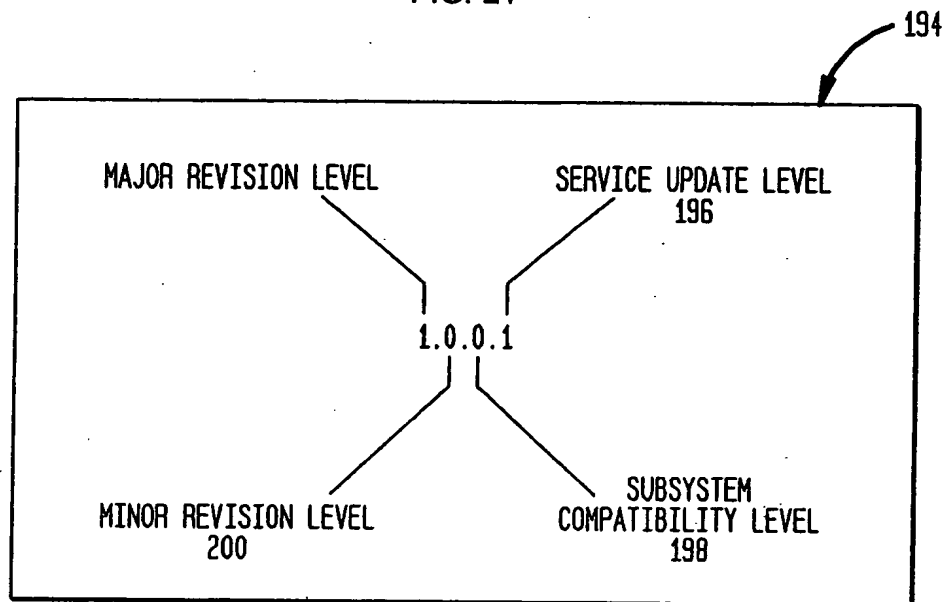
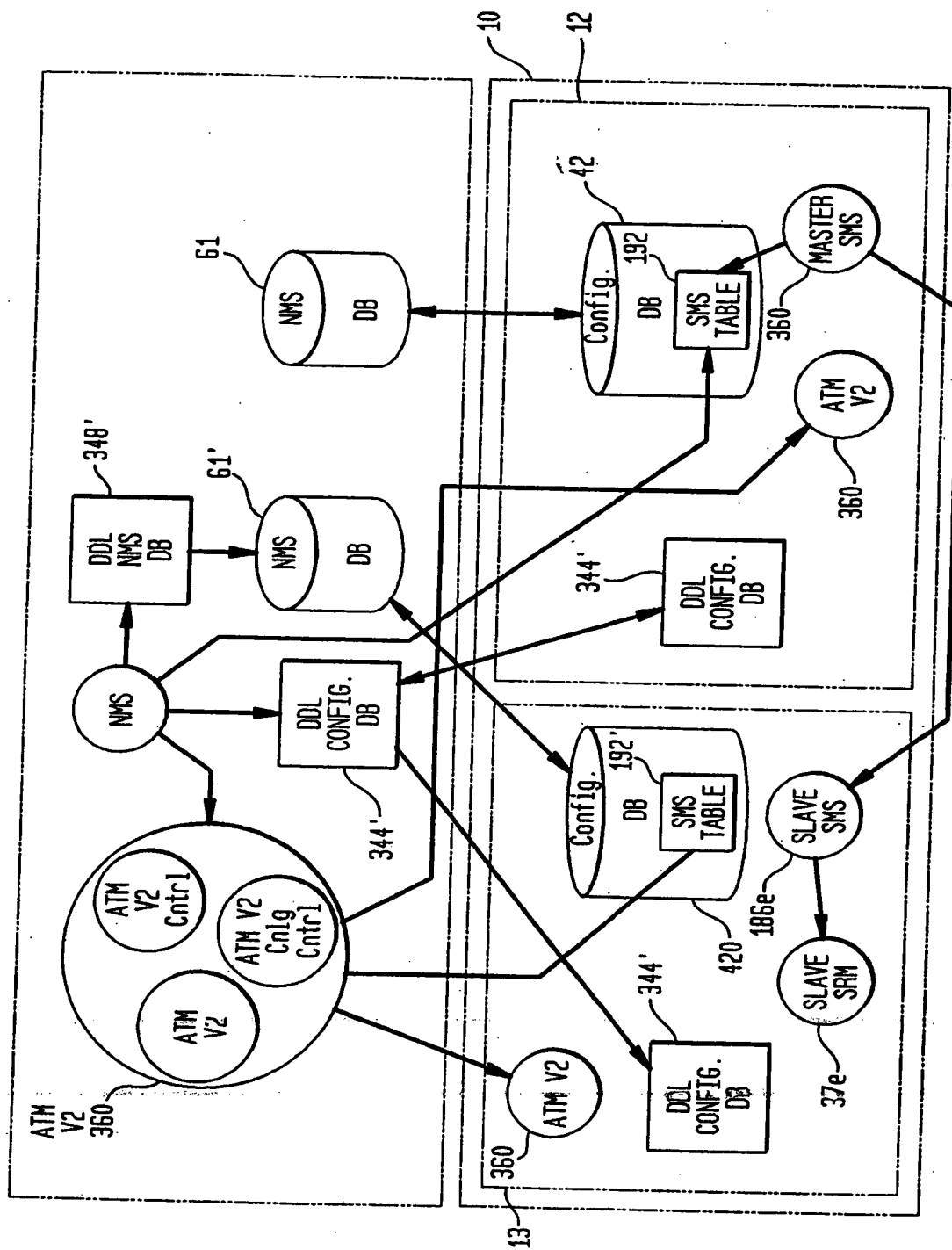
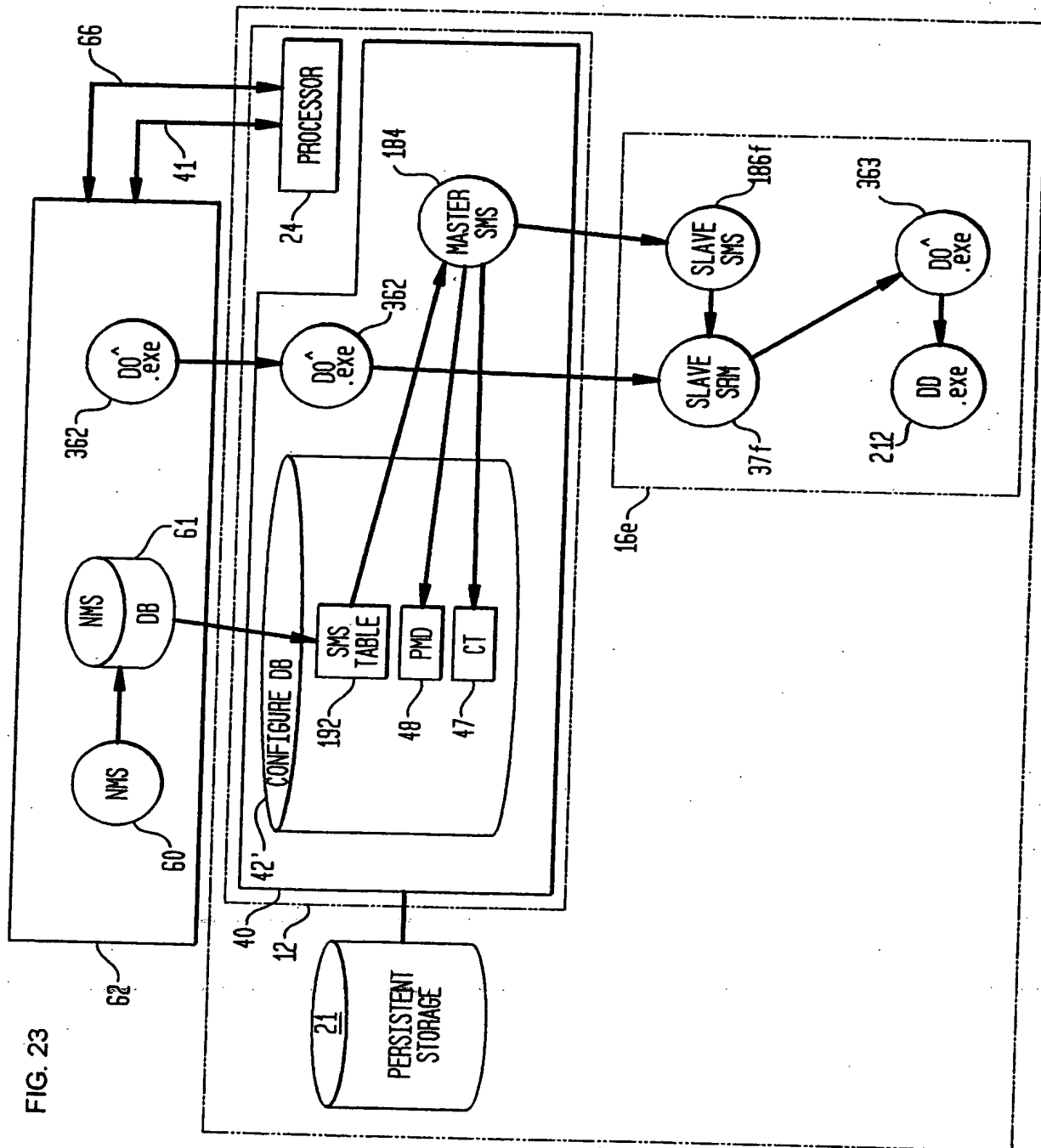




FIG. 22





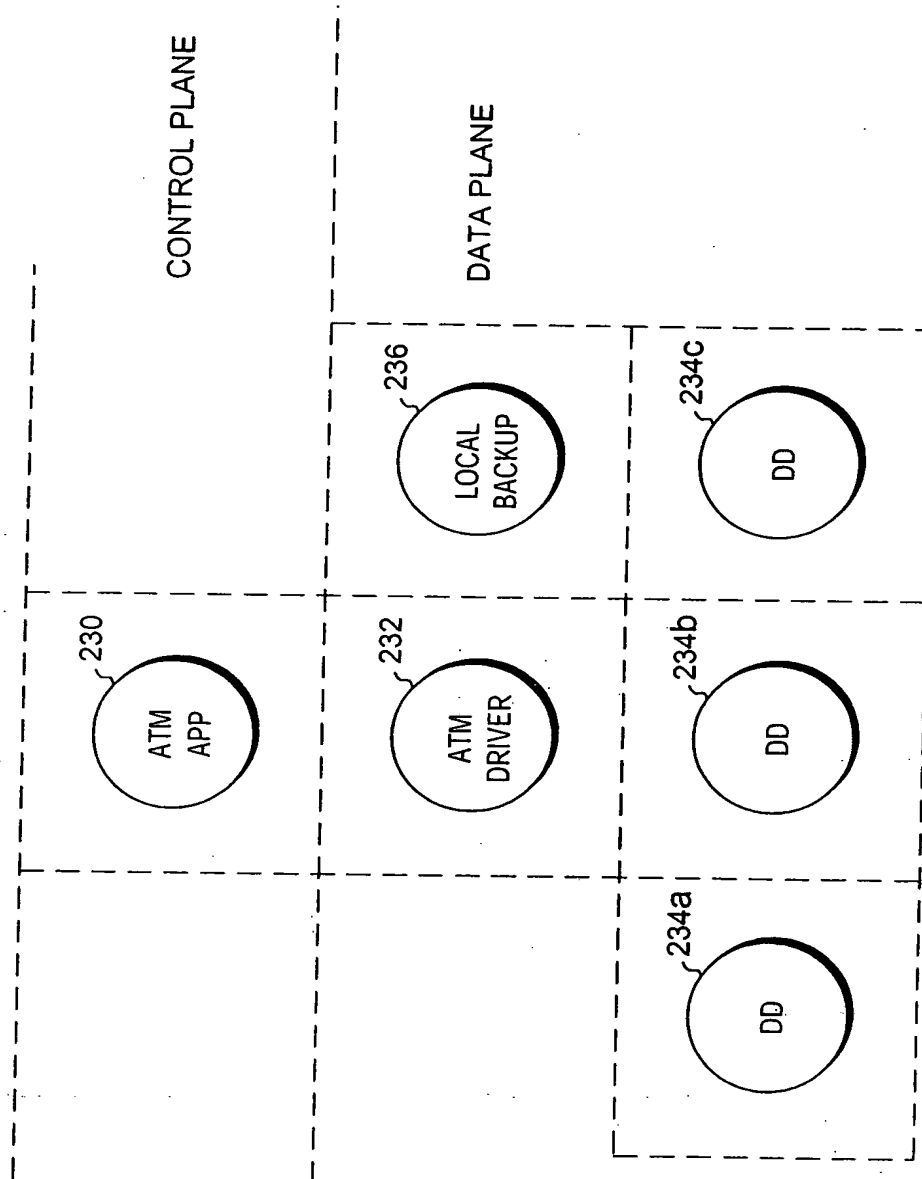


FIG. 24

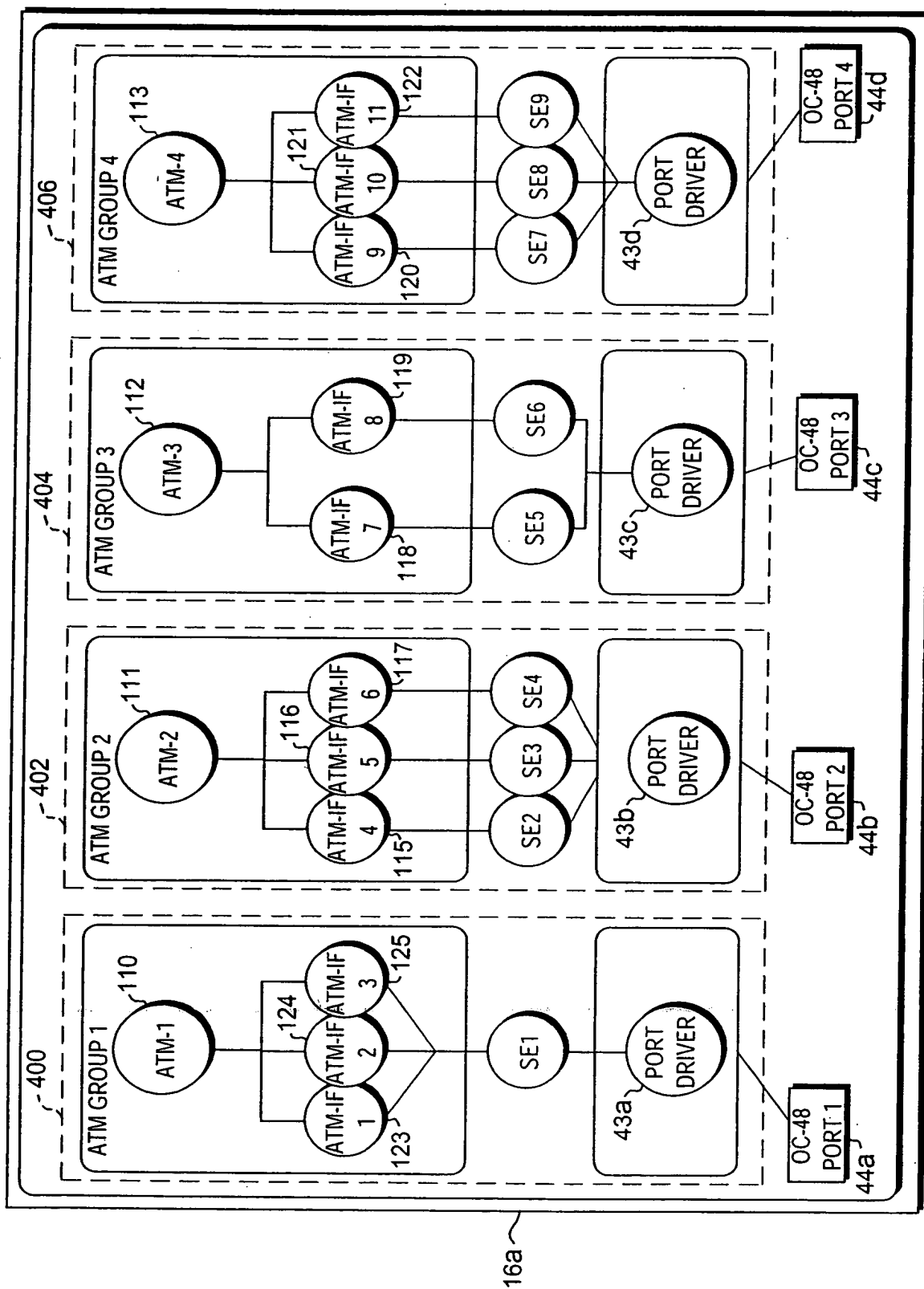


FIG. 25

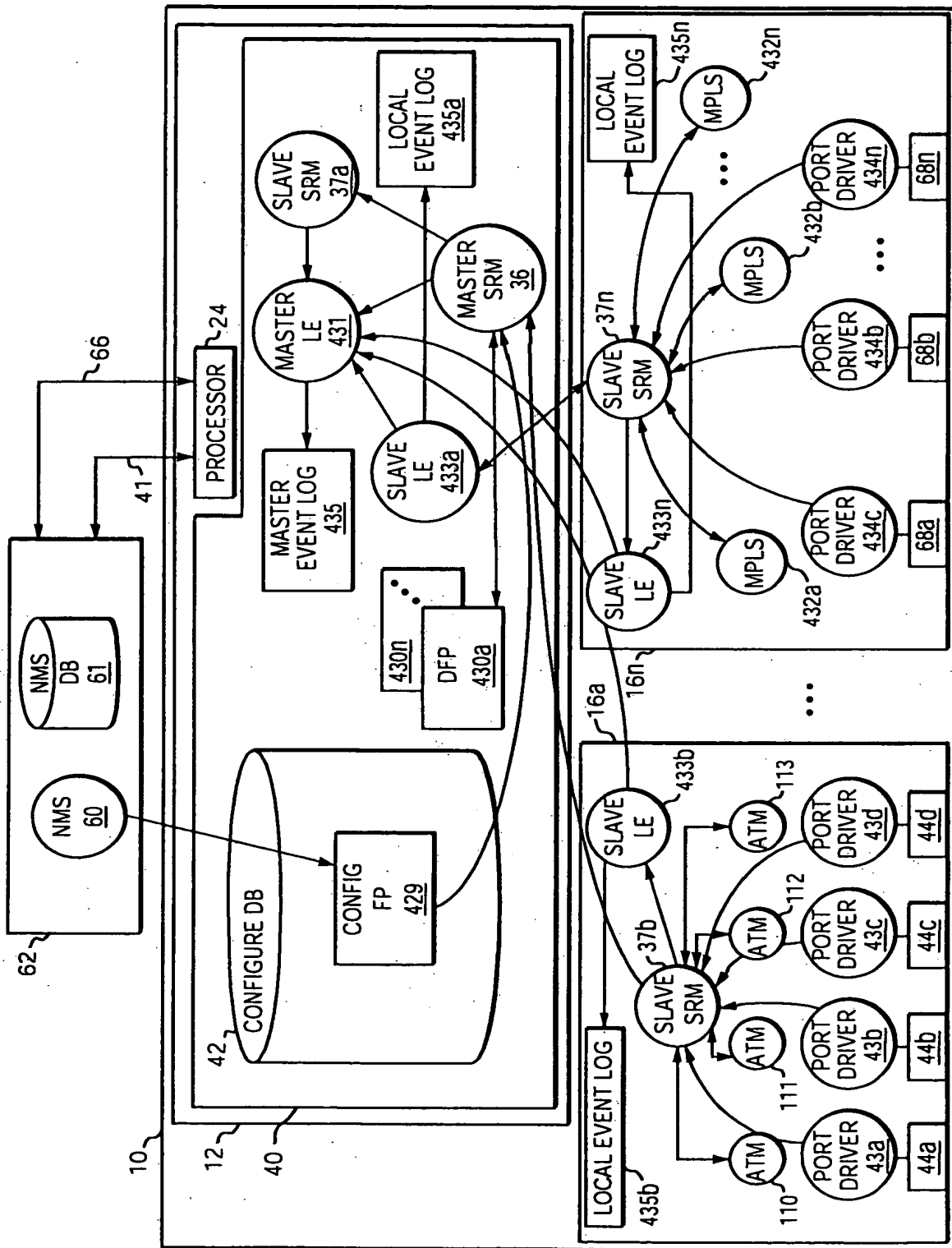


FIG. 26

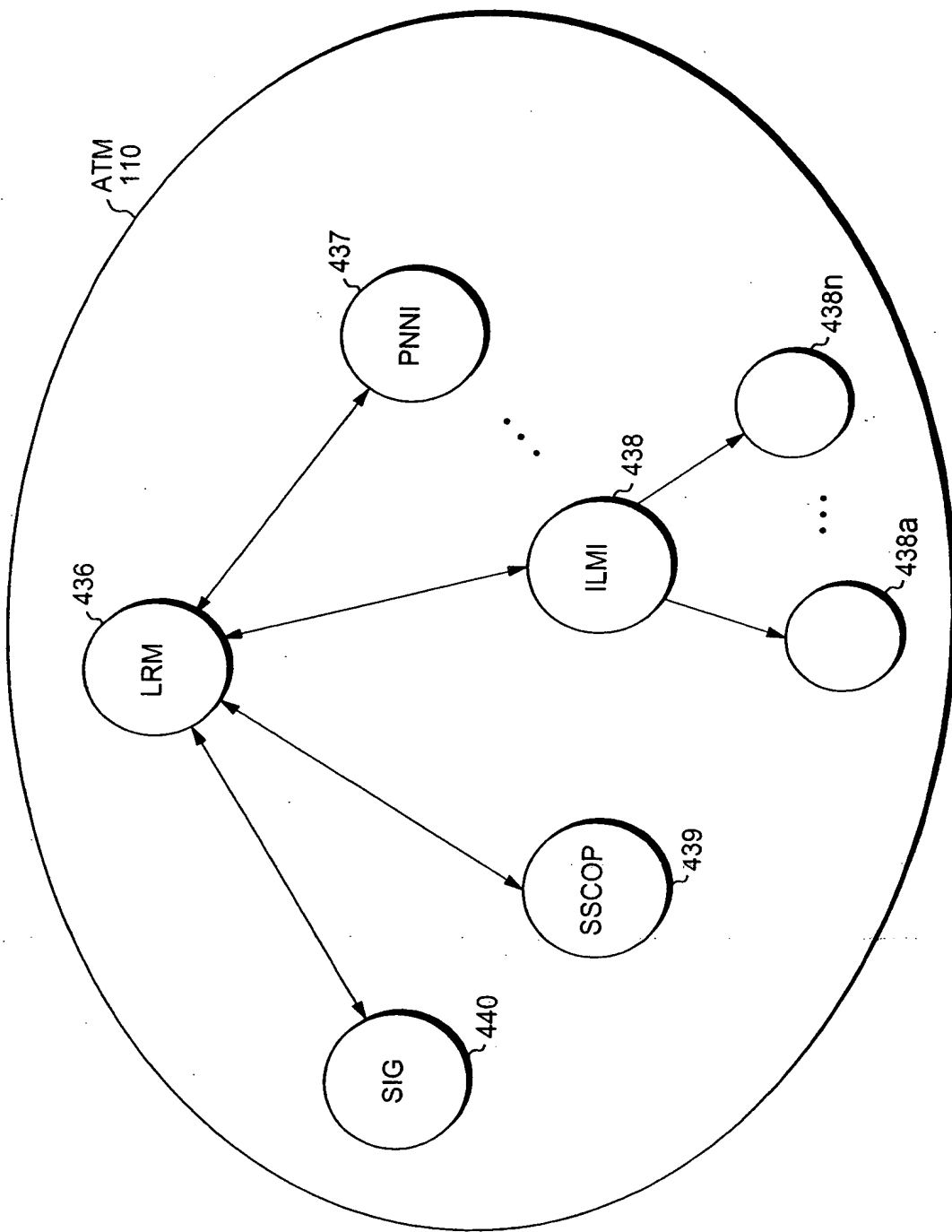


FIG. 27

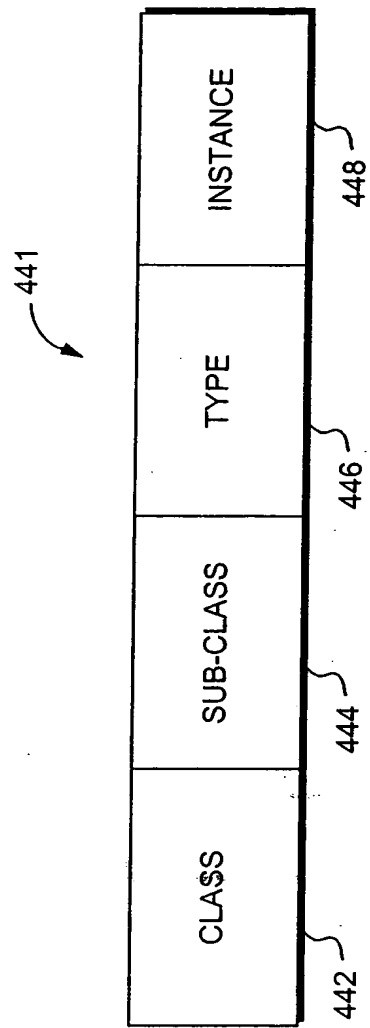


FIG. 28

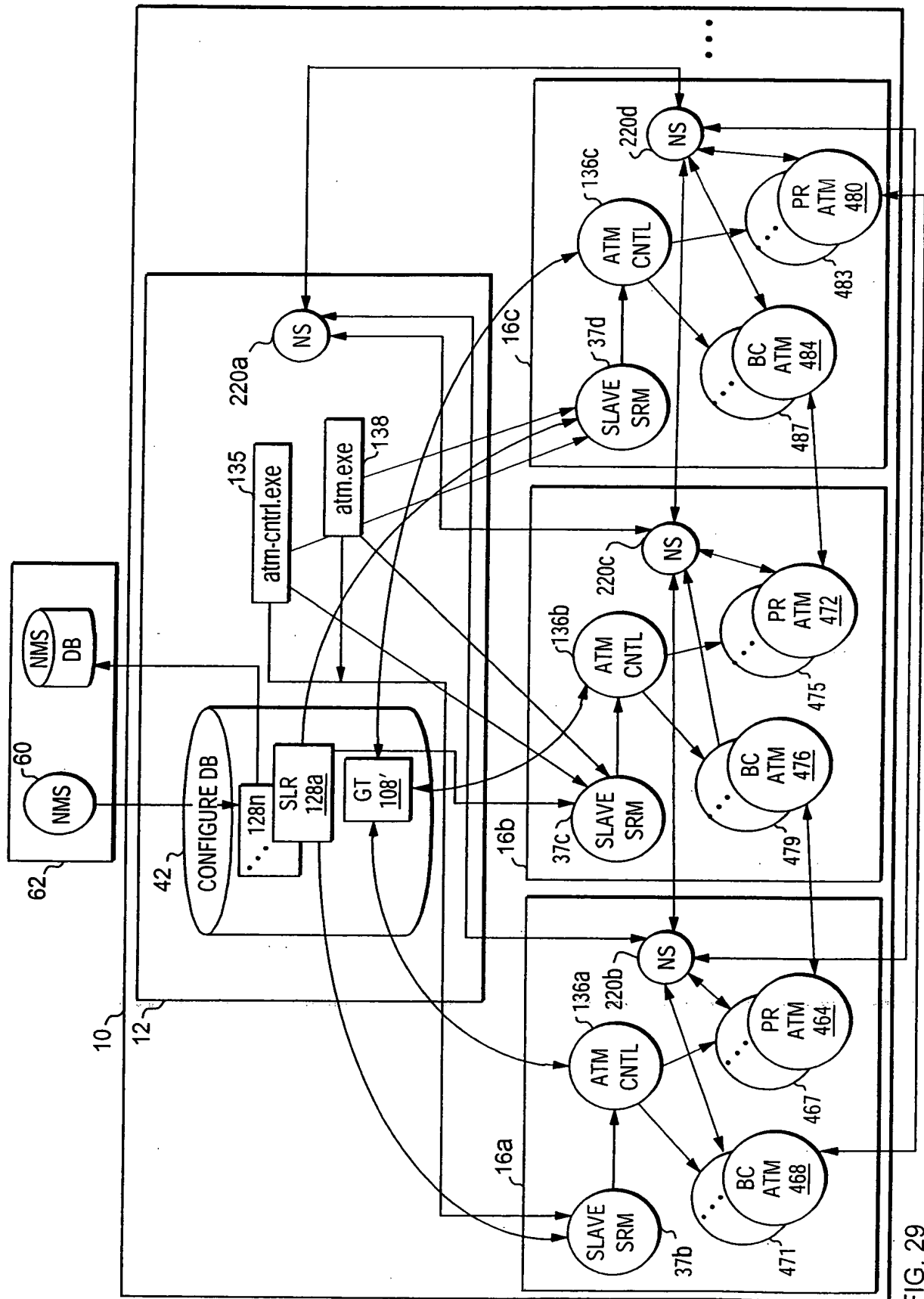


FIG. 29



GROUP TABLE 108'

|     |             | 447                 | 449                |             |
|-----|-------------|---------------------|--------------------|-------------|
|     | GROUP<br>#  | PRIMARY<br>CARD LID | BACKUP<br>CARD LID | ...         |
| 450 | 1           | 30                  | 31                 |             |
| 451 | 2           | 30                  | 31                 |             |
| 452 | 3           | 30                  | 31                 |             |
| 453 | 4           | 30                  | 31                 |             |
| 454 | 5           | 31                  | 32                 |             |
| 455 | 6           | 31                  | 32                 |             |
| 456 | 7           | 31                  | 32                 |             |
| 457 | 8           | 31                  | 32                 |             |
| 458 | 9           | 32                  | 30                 |             |
| 459 | 10          | 32                  | 30                 |             |
| 460 | 11          | 32                  | 30                 |             |
| 461 | 12          | 32                  | 30                 |             |
|     | •<br>•<br>• | •<br>•<br>•         | •<br>•<br>•        | •<br>•<br>• |

FIG. 30

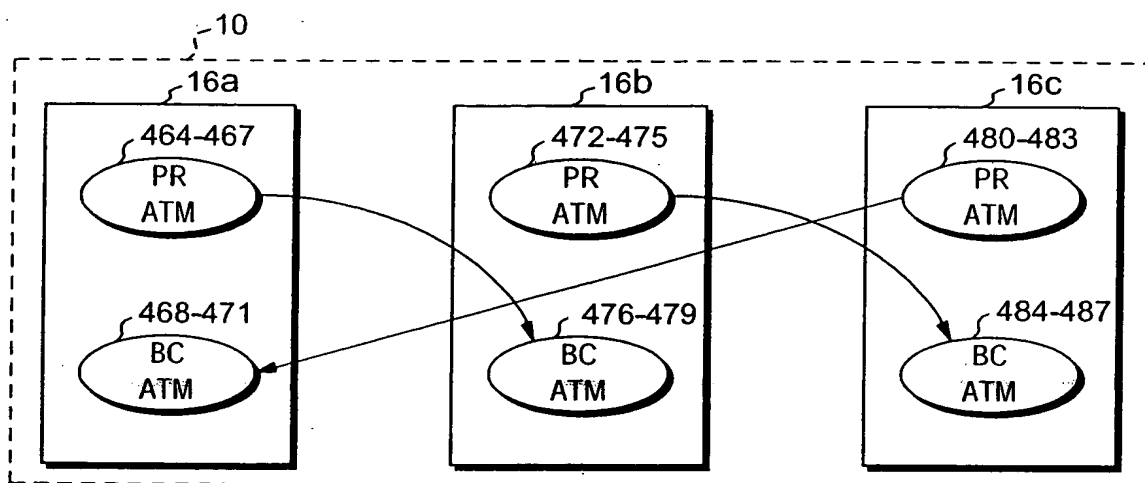


FIG. 31A

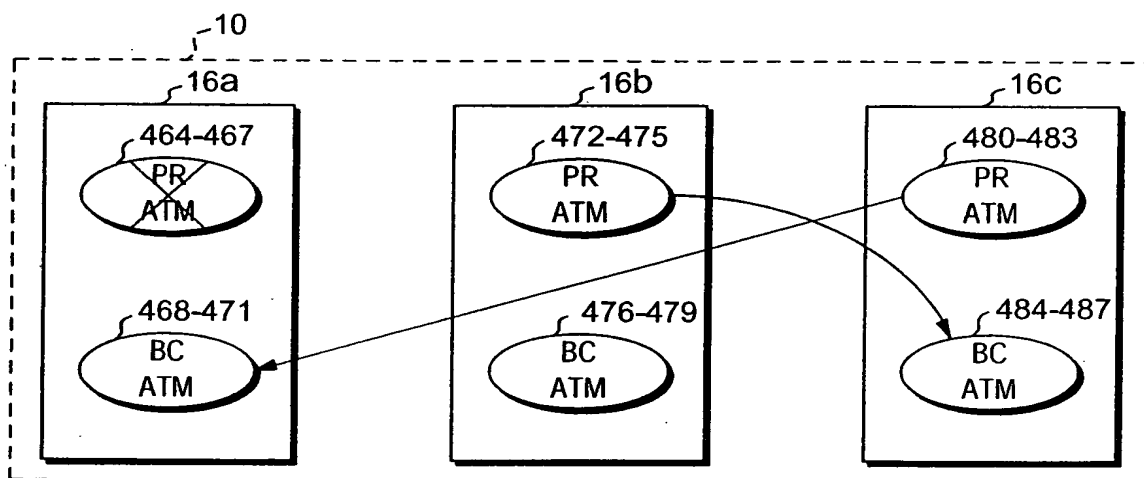


FIG. 31B

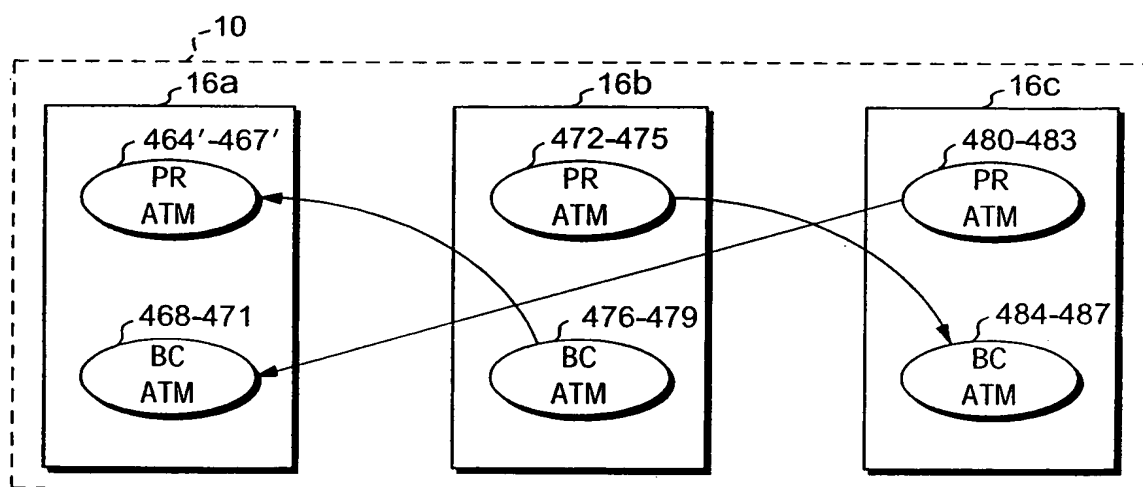


FIG. 31C

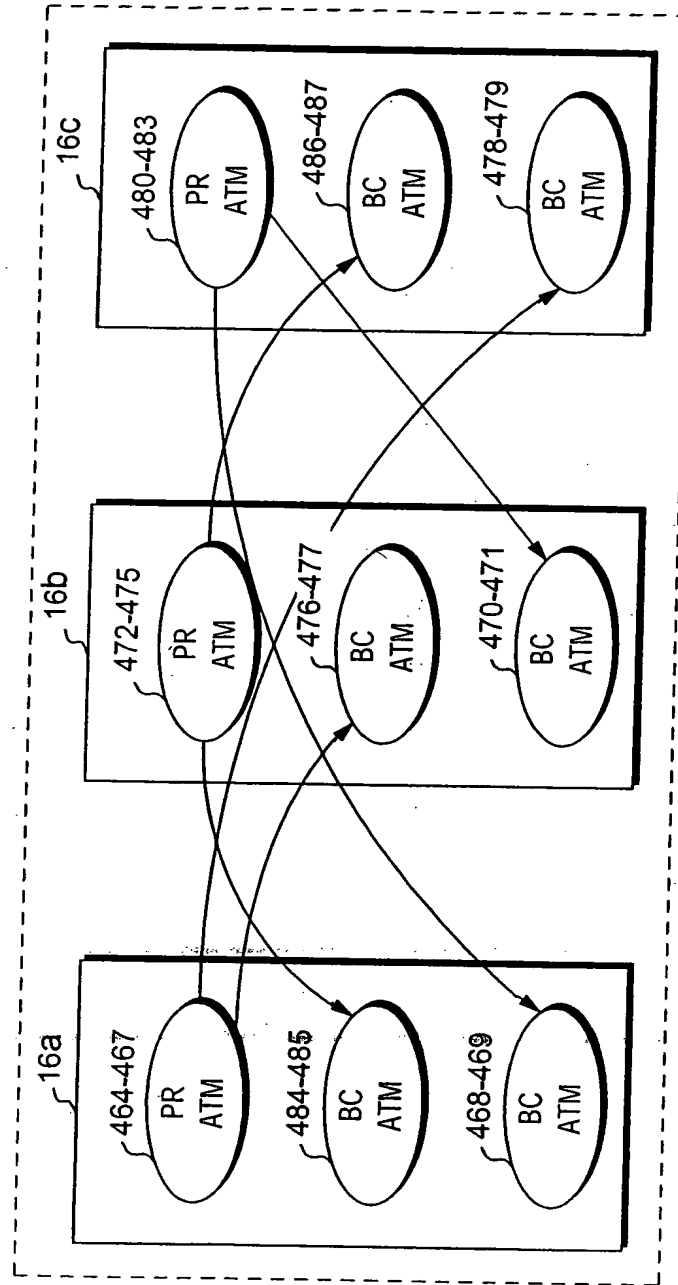


FIG. 32A

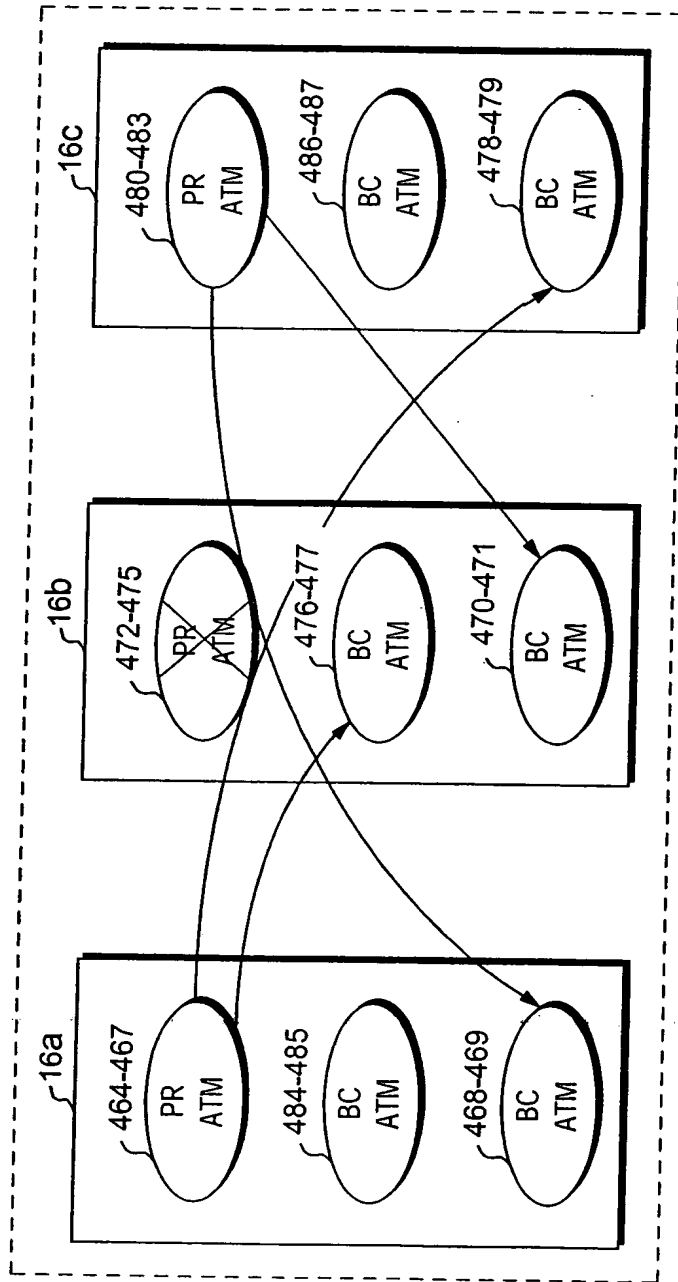


FIG. 32B

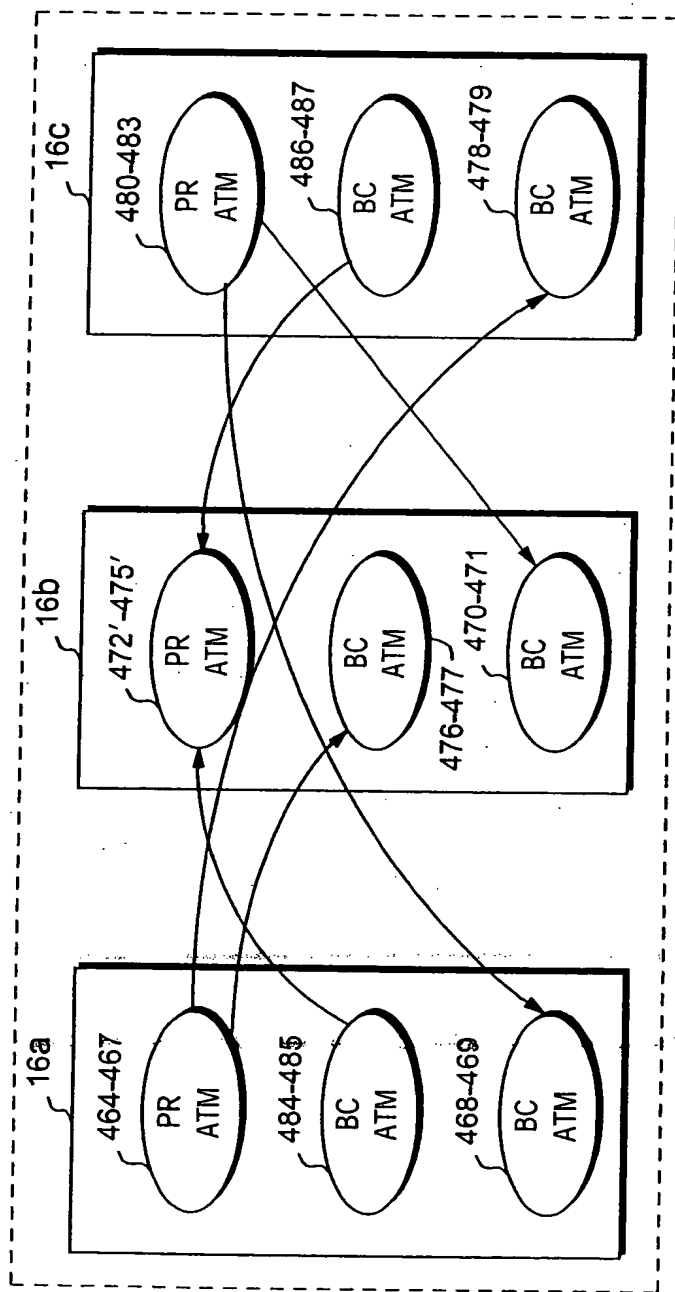


FIG. 32C

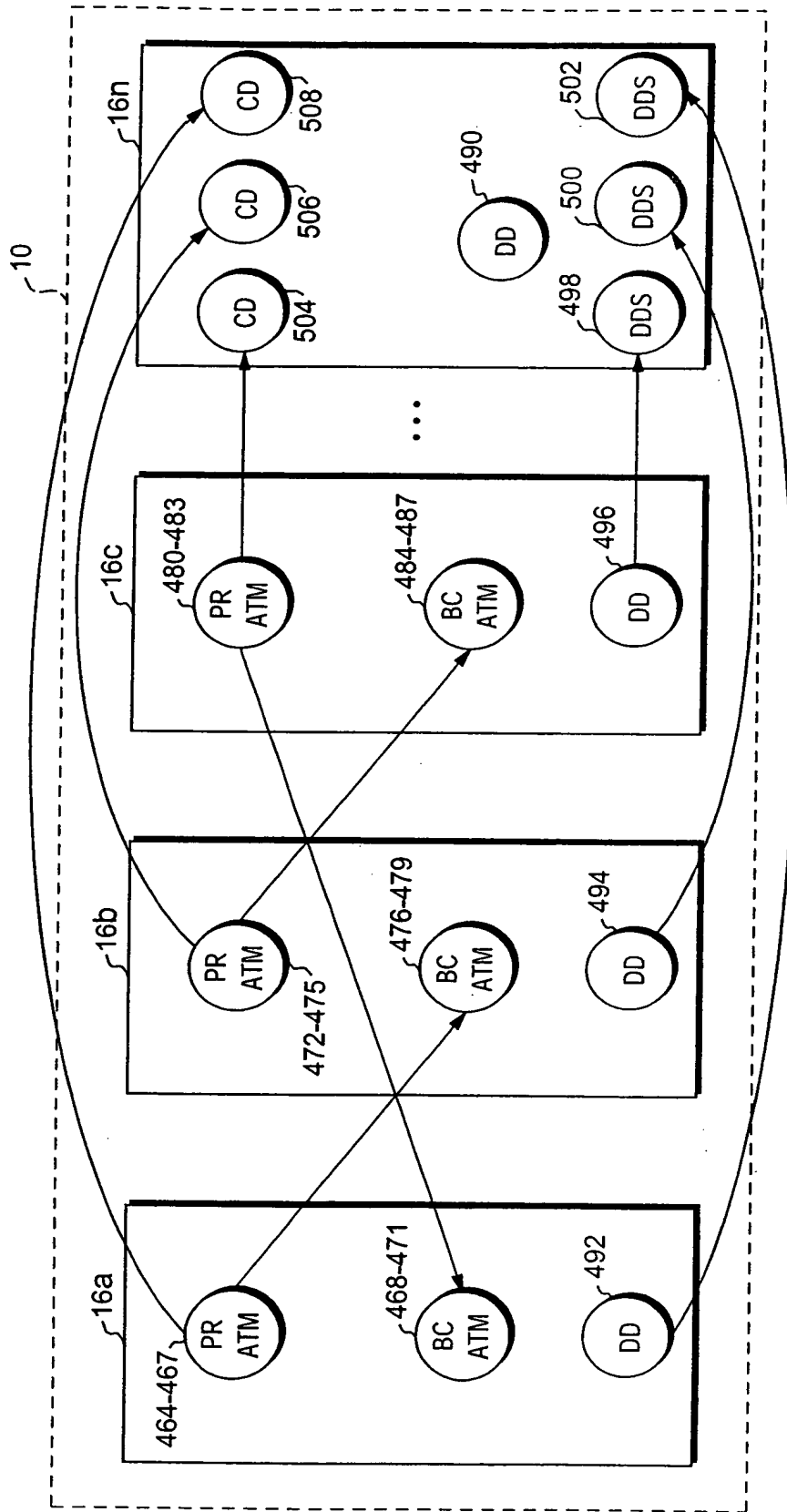


FIG. 33A

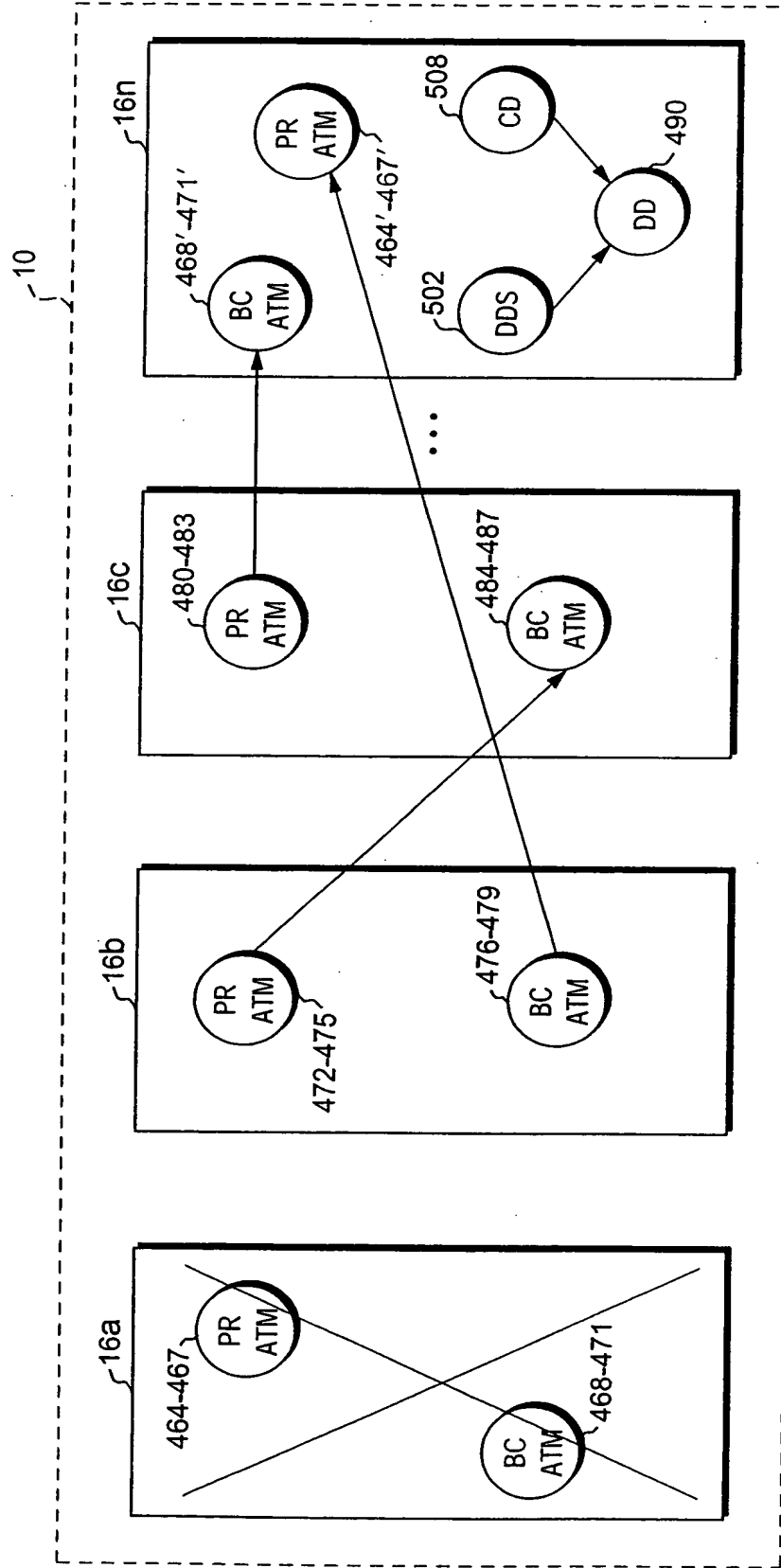


FIG. 33B

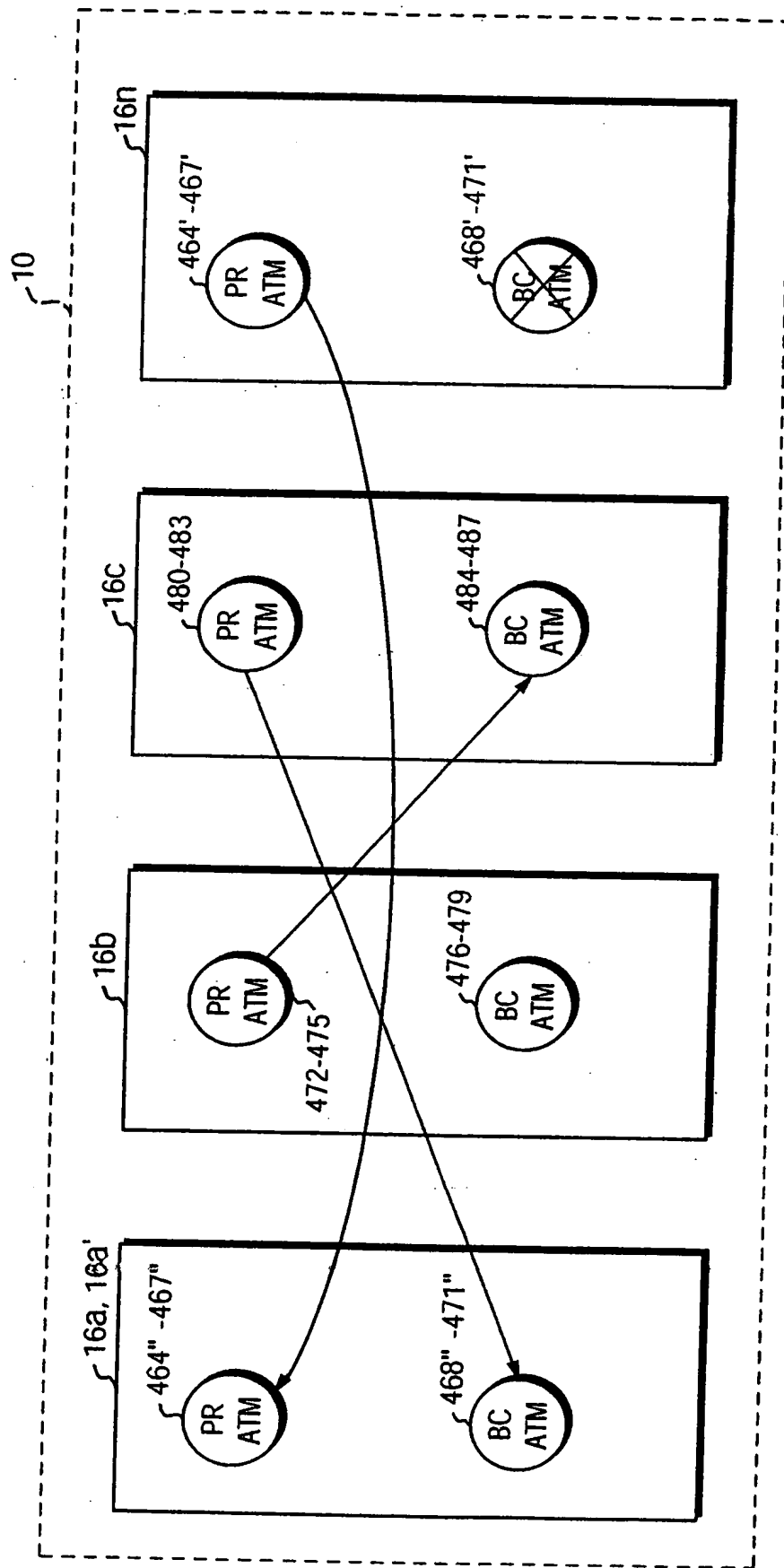


FIG. 33C



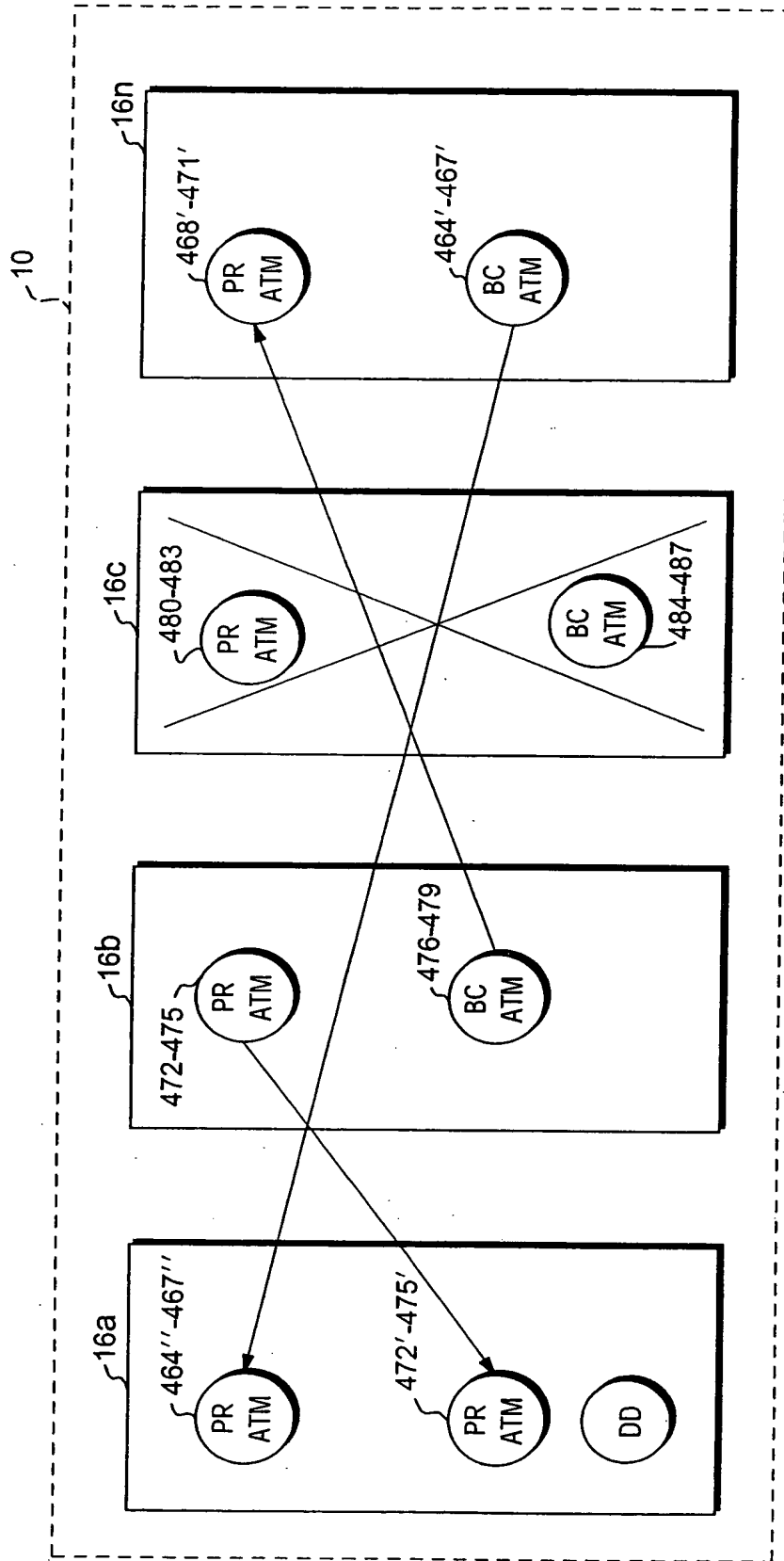


FIG. 33D

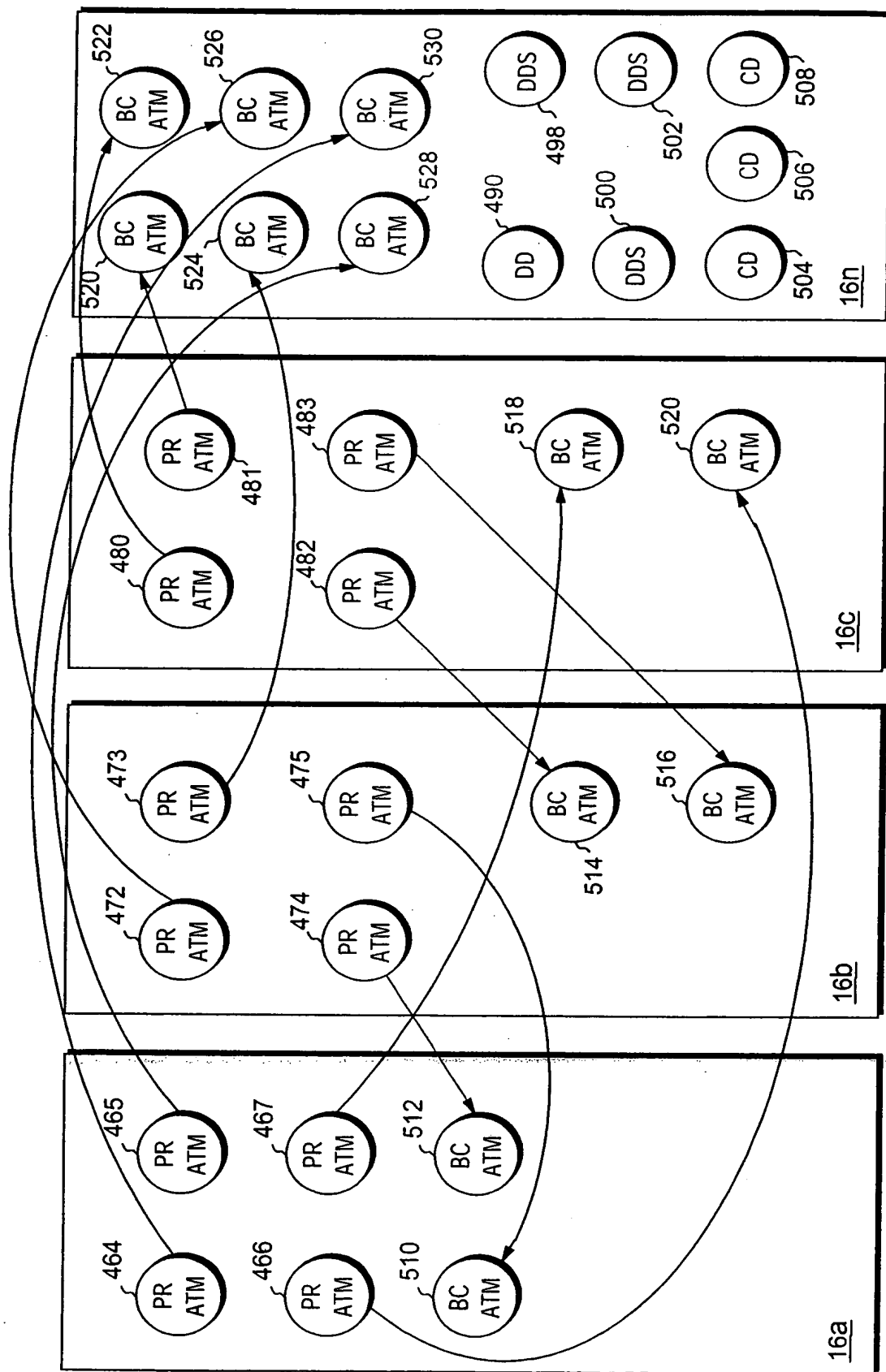


FIG. 34A

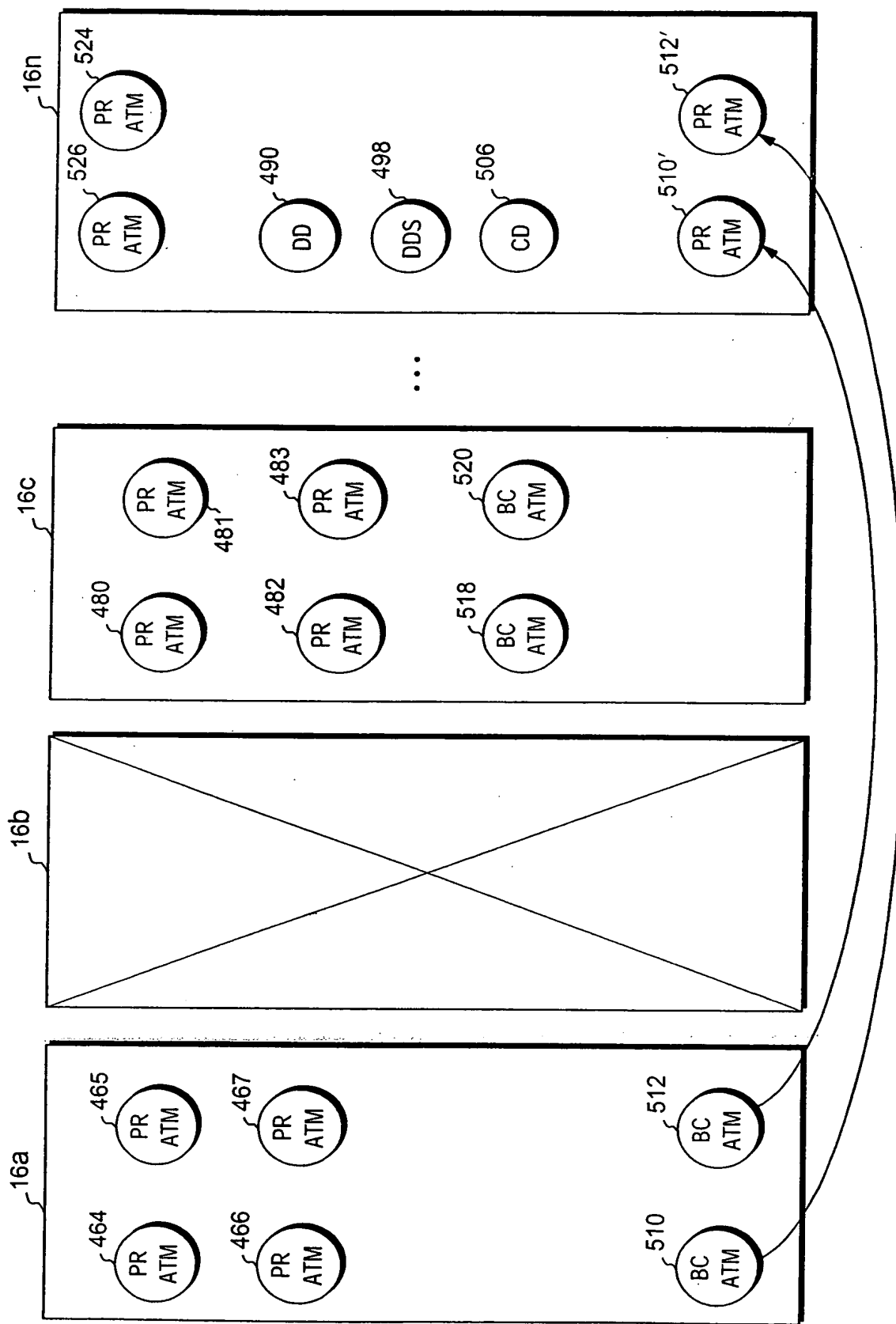


FIG. 34B

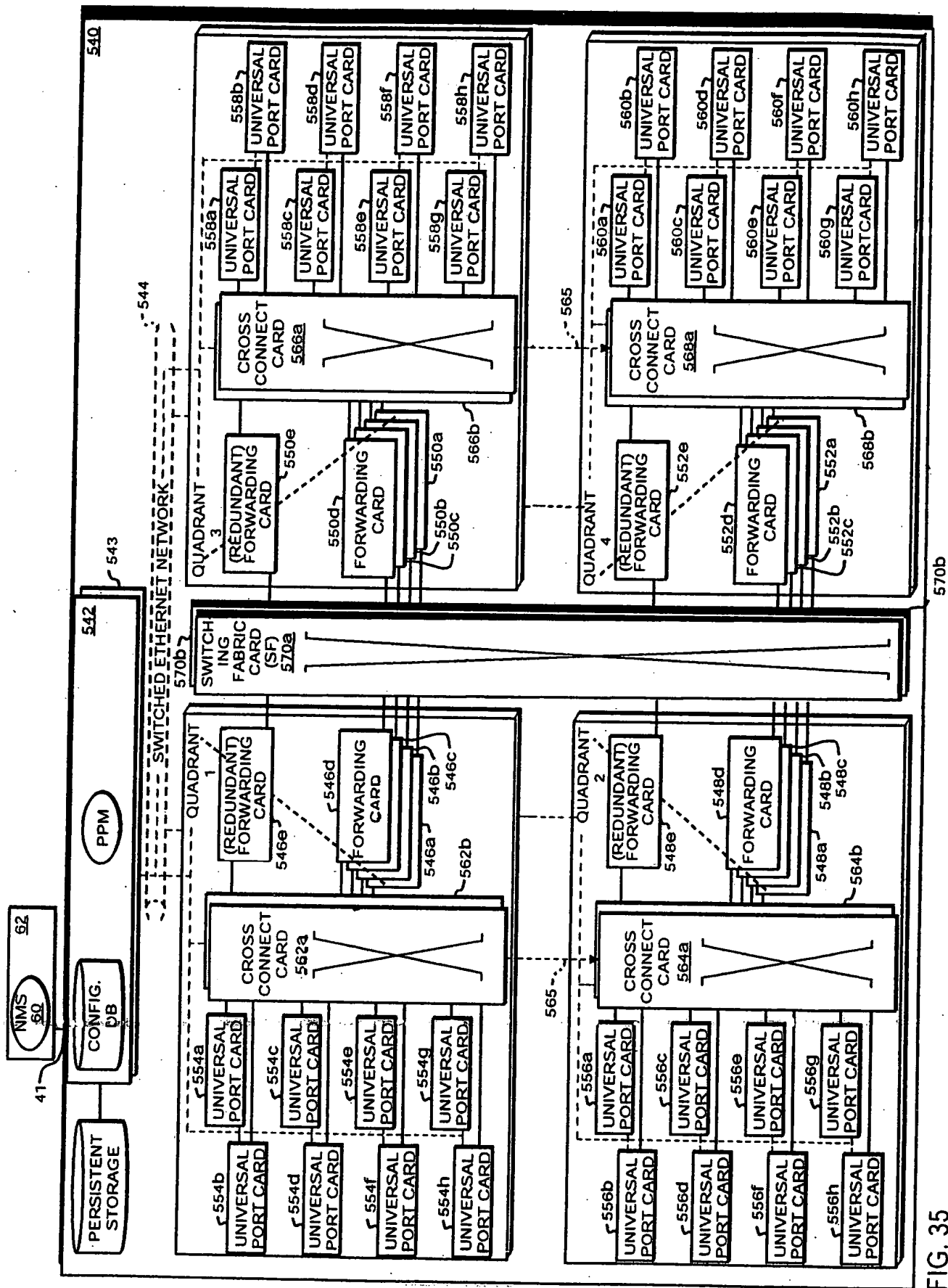


FIG. 35

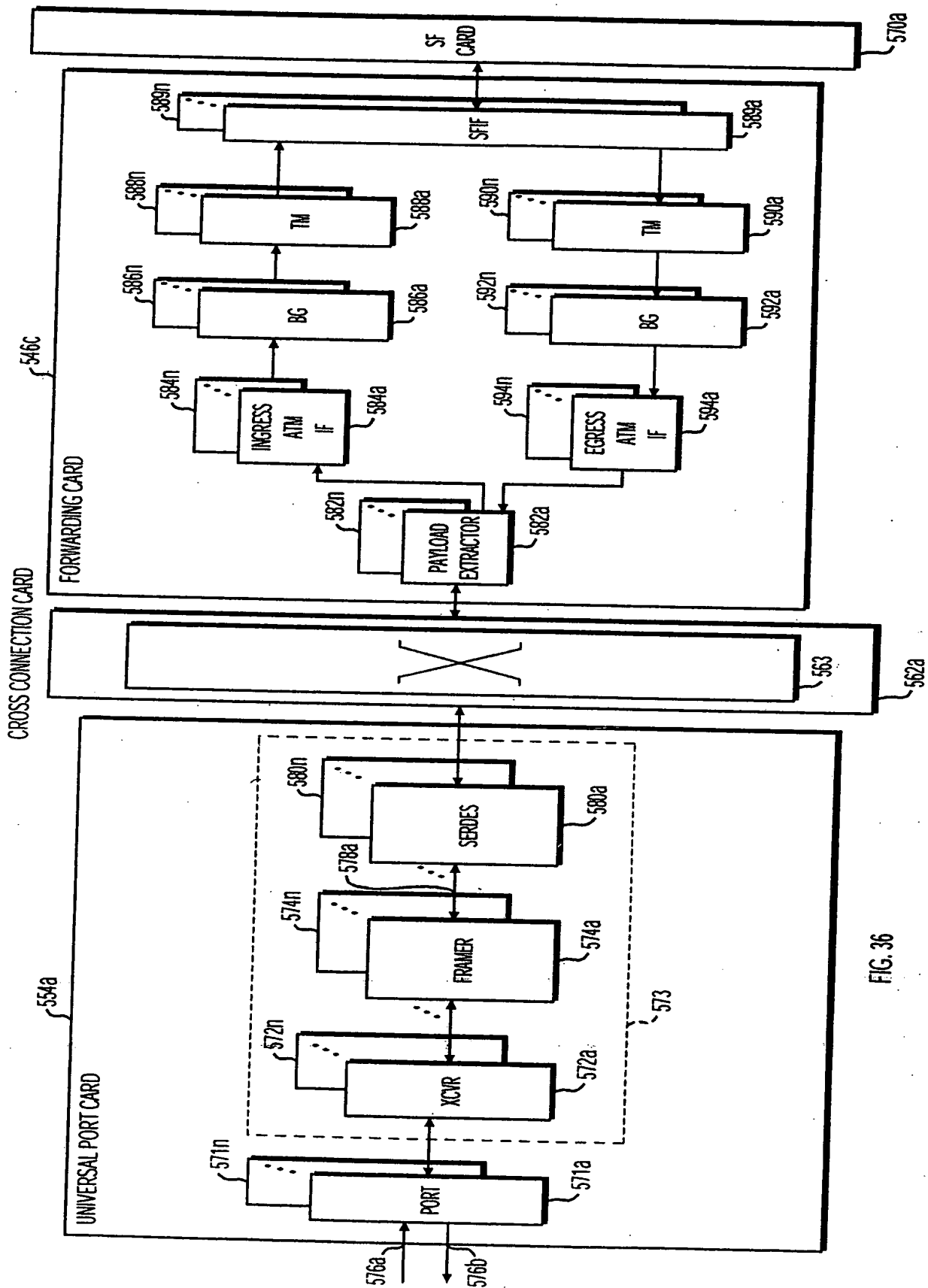


FIG. 36

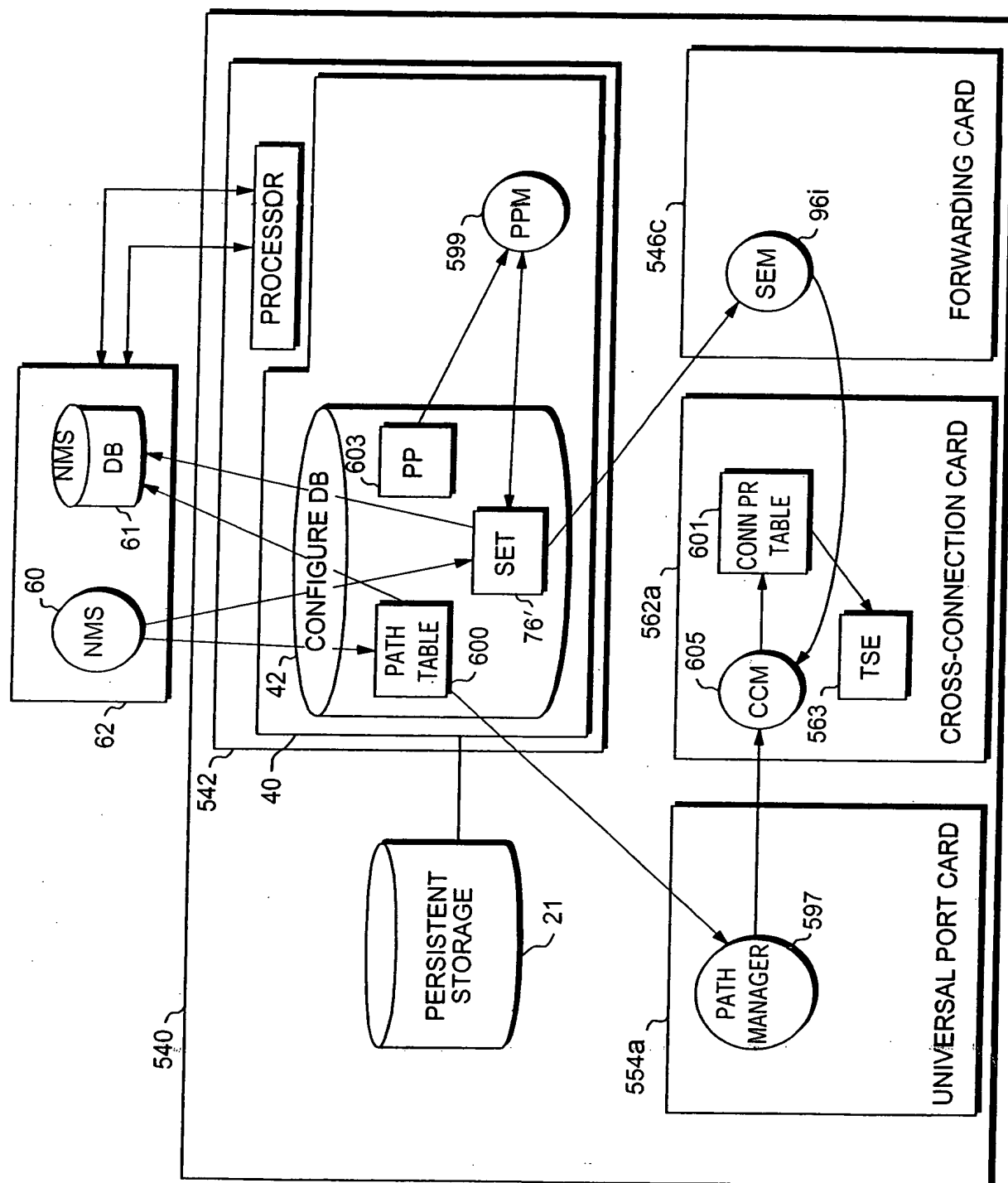


FIG. 37

PATH TABLE 600

602

| PATH<br>LID | UP PORT<br>LID | TIME<br>SLOT | # OF TIME<br>SLOTS | ... |
|-------------|----------------|--------------|--------------------|-----|
| 1666        | 1231           | 4            | 3                  |     |
| ⋮           | ⋮              | ⋮            | ⋮                  | ⋮   |

FIG. 38

SERVICE END POINT TABLE 76'

| SE<br># | Q<br># | FC<br>LID | FC<br>SLICE | FC<br>TIME<br>SLOT | PATH<br>PID | ... |
|---------|--------|-----------|-------------|--------------------|-------------|-----|
| 878     | 1      |           |             |                    | 1666        |     |
| ⋮       | ⋮      | ⋮         | ⋮           | ⋮                  | ⋮           | ⋮   |

FIG. 39



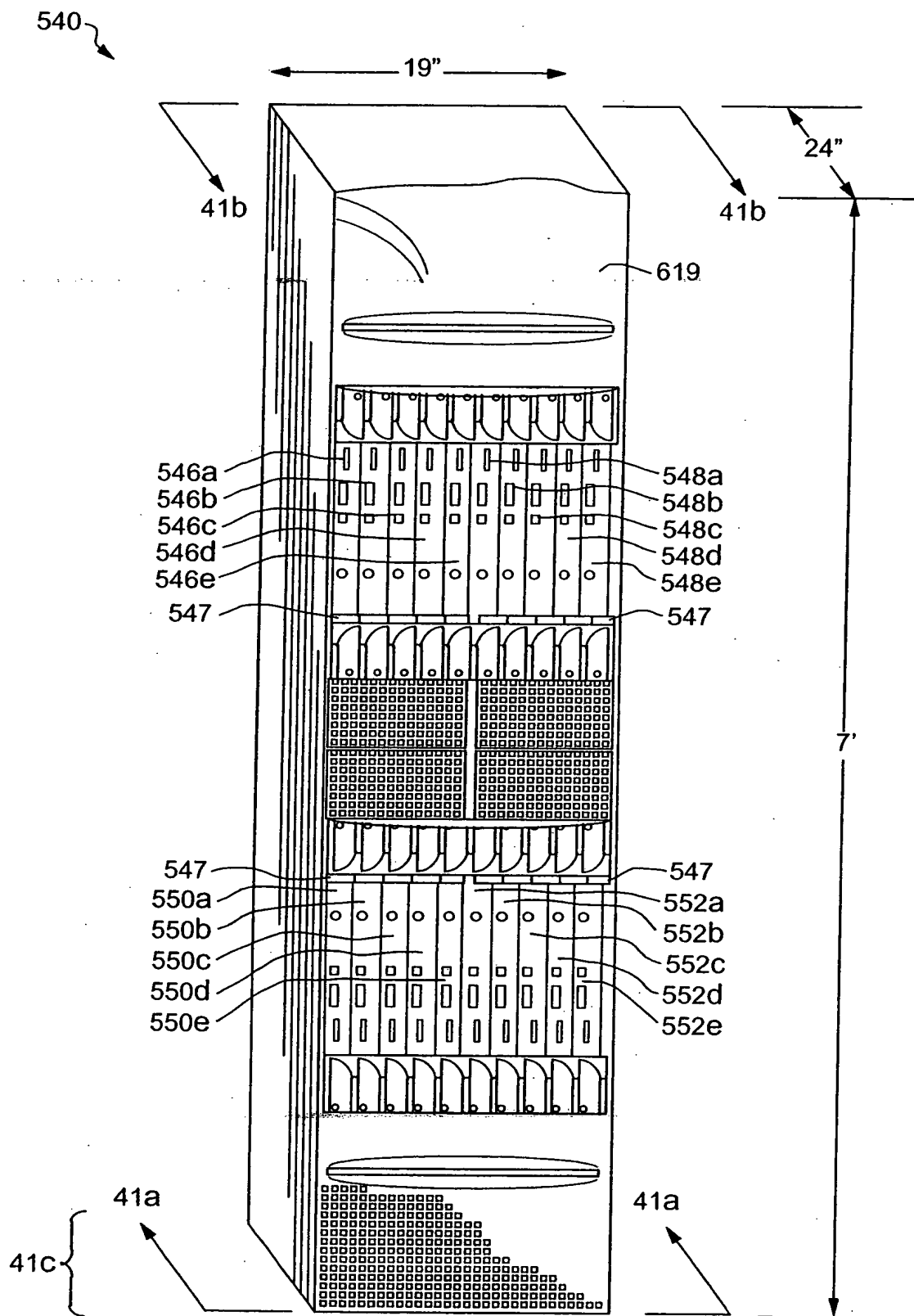


FIG. 40

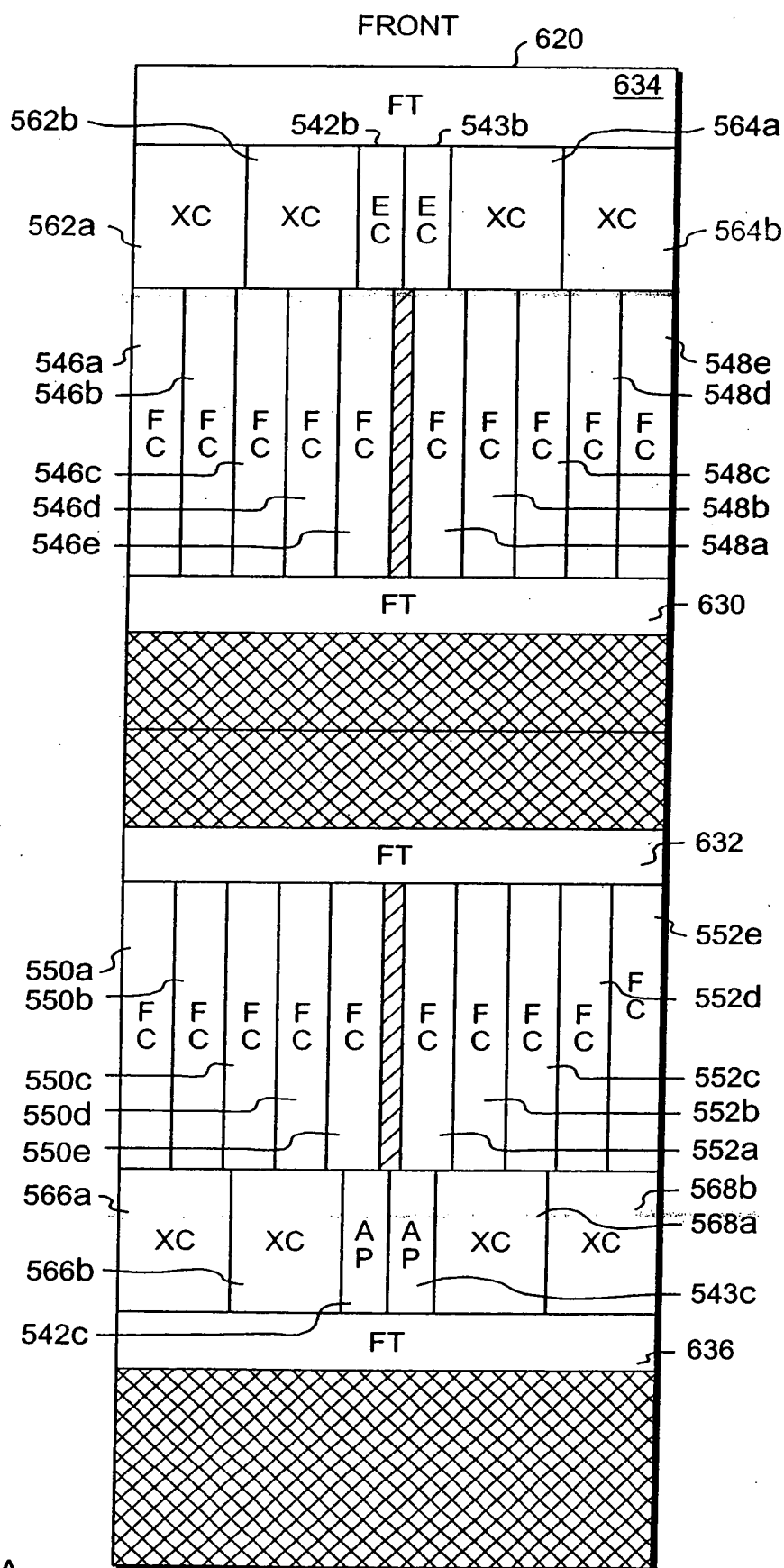


FIG. 41A

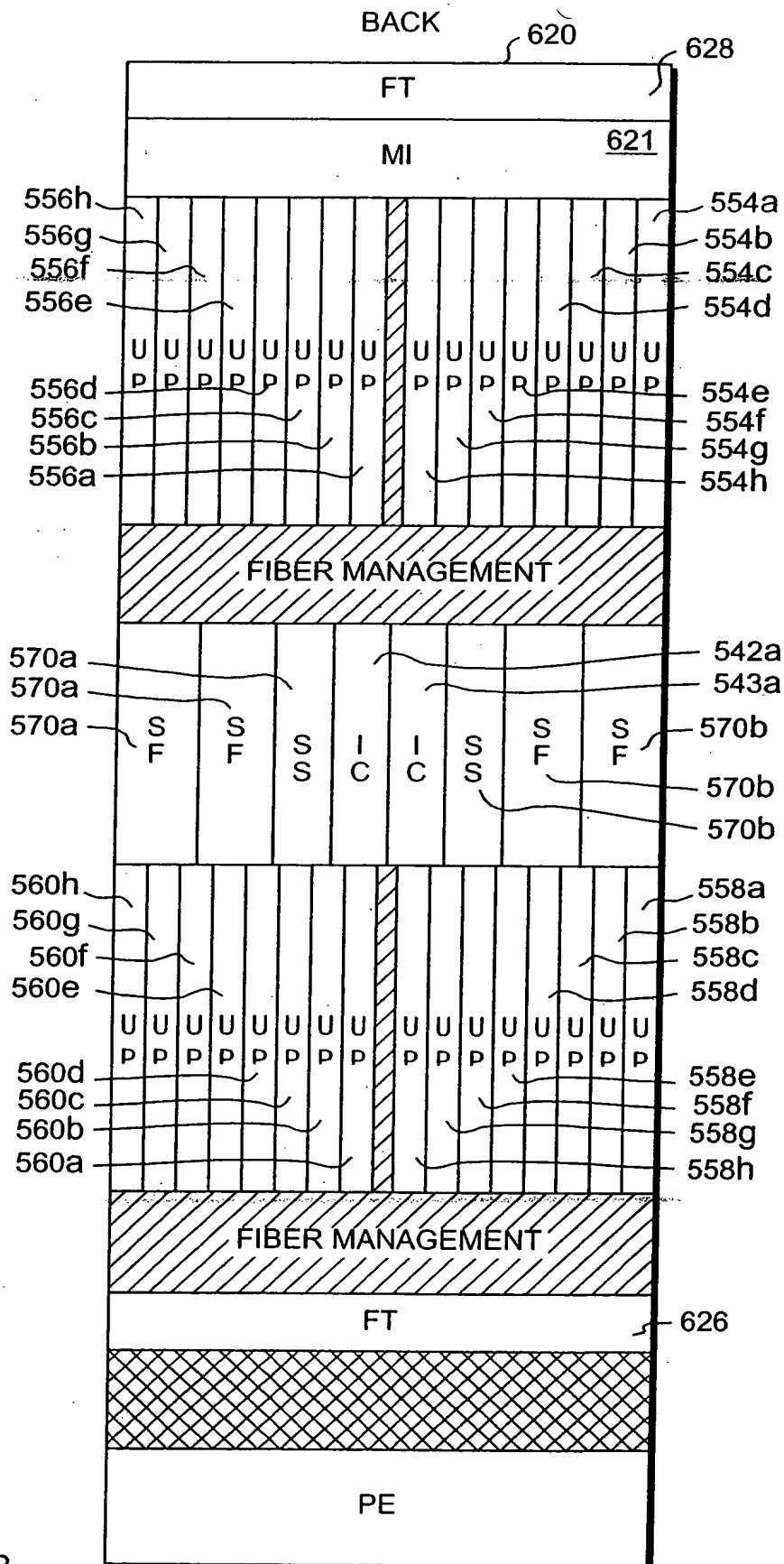


FIG. 41B

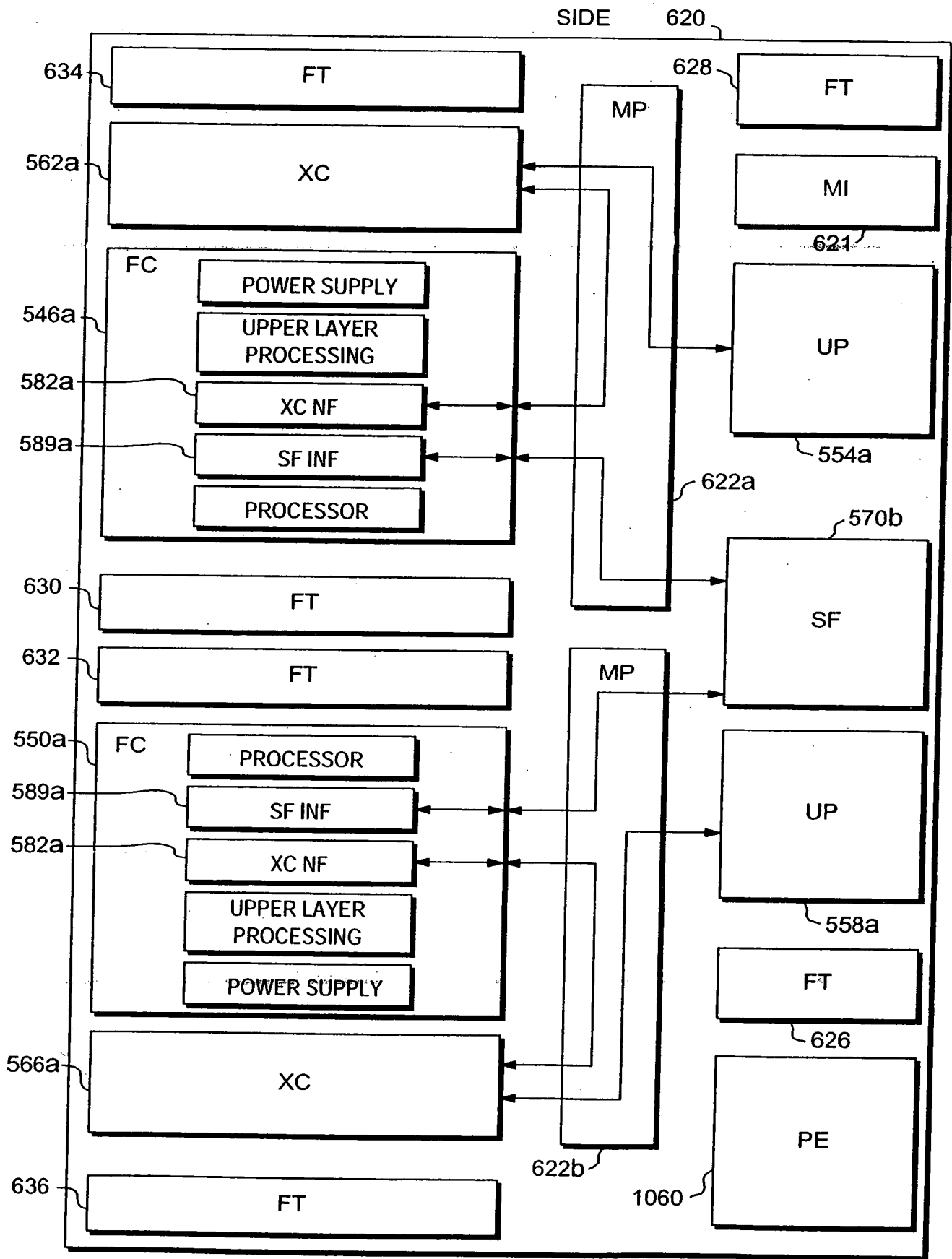


FIG. 41C

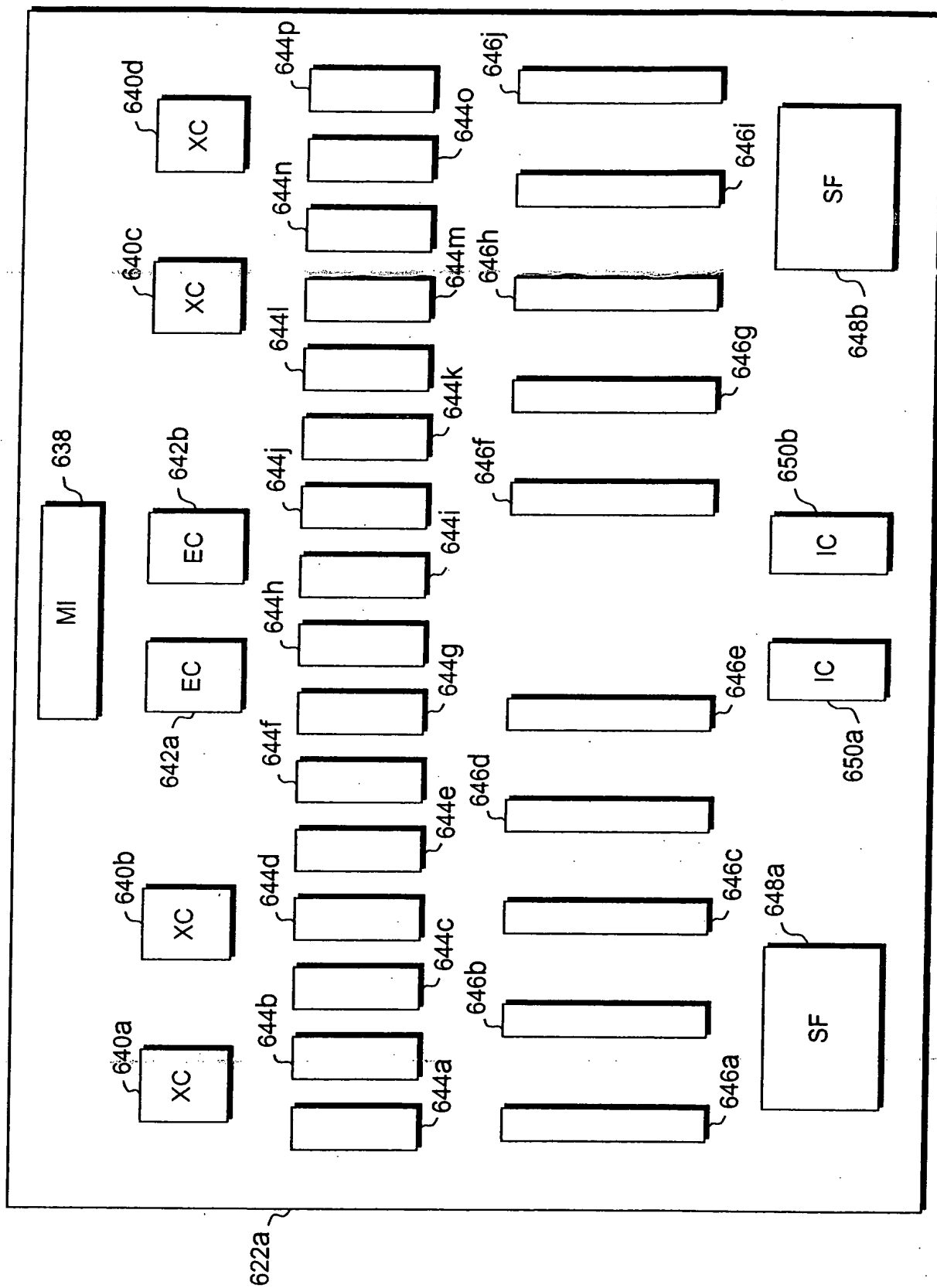


FIG. 42A

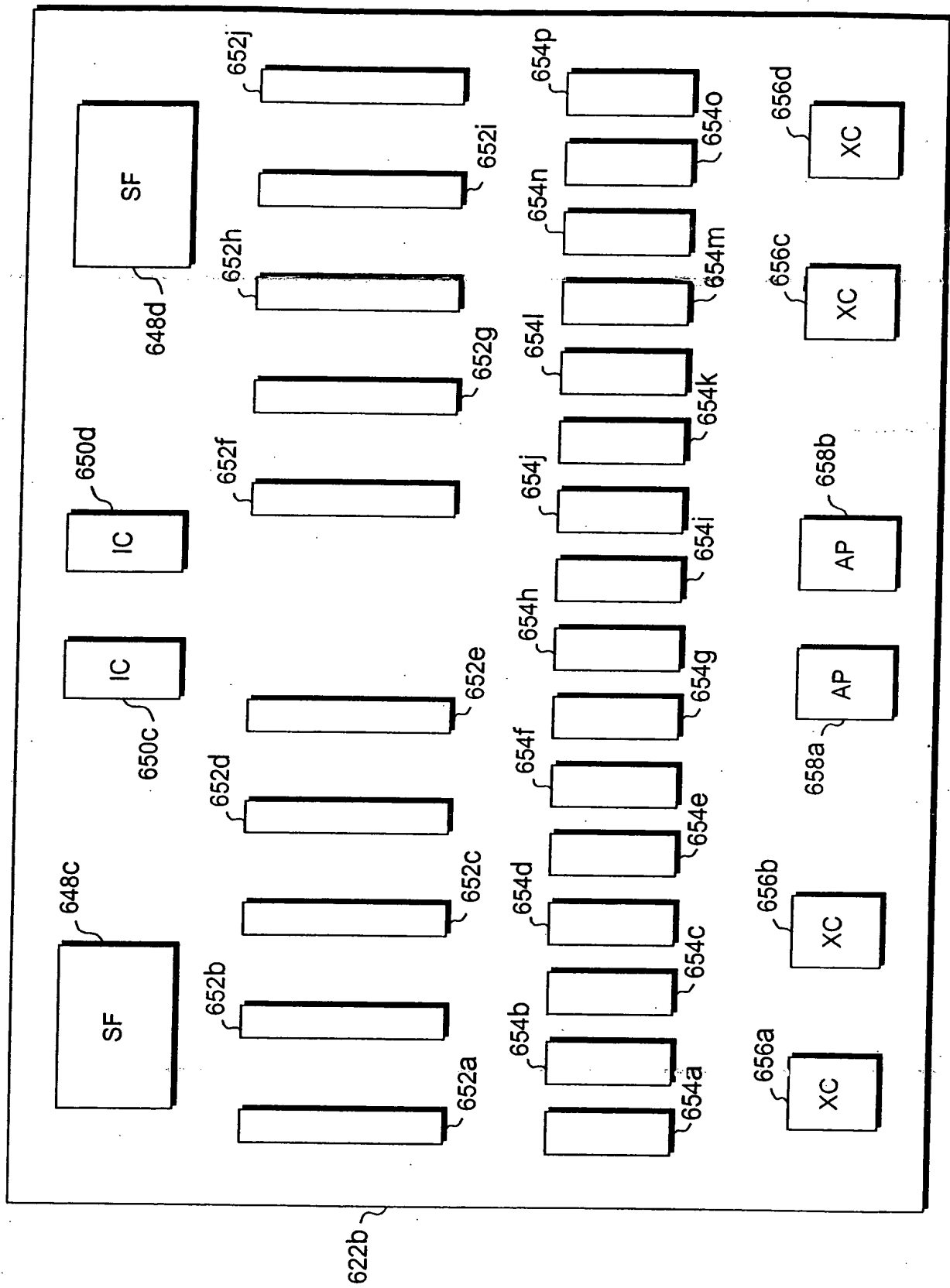


FIG. 42B

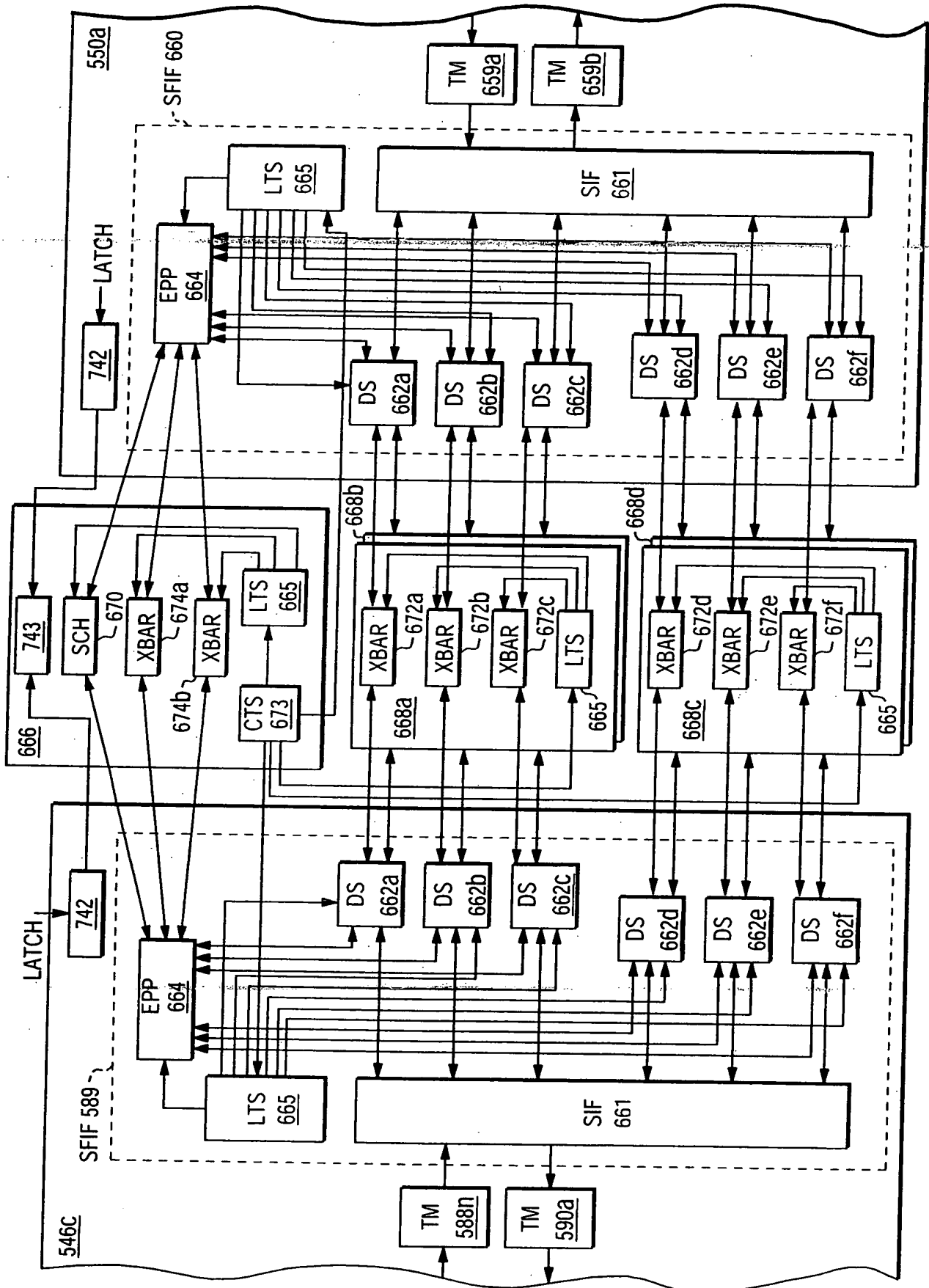


FIG. 43

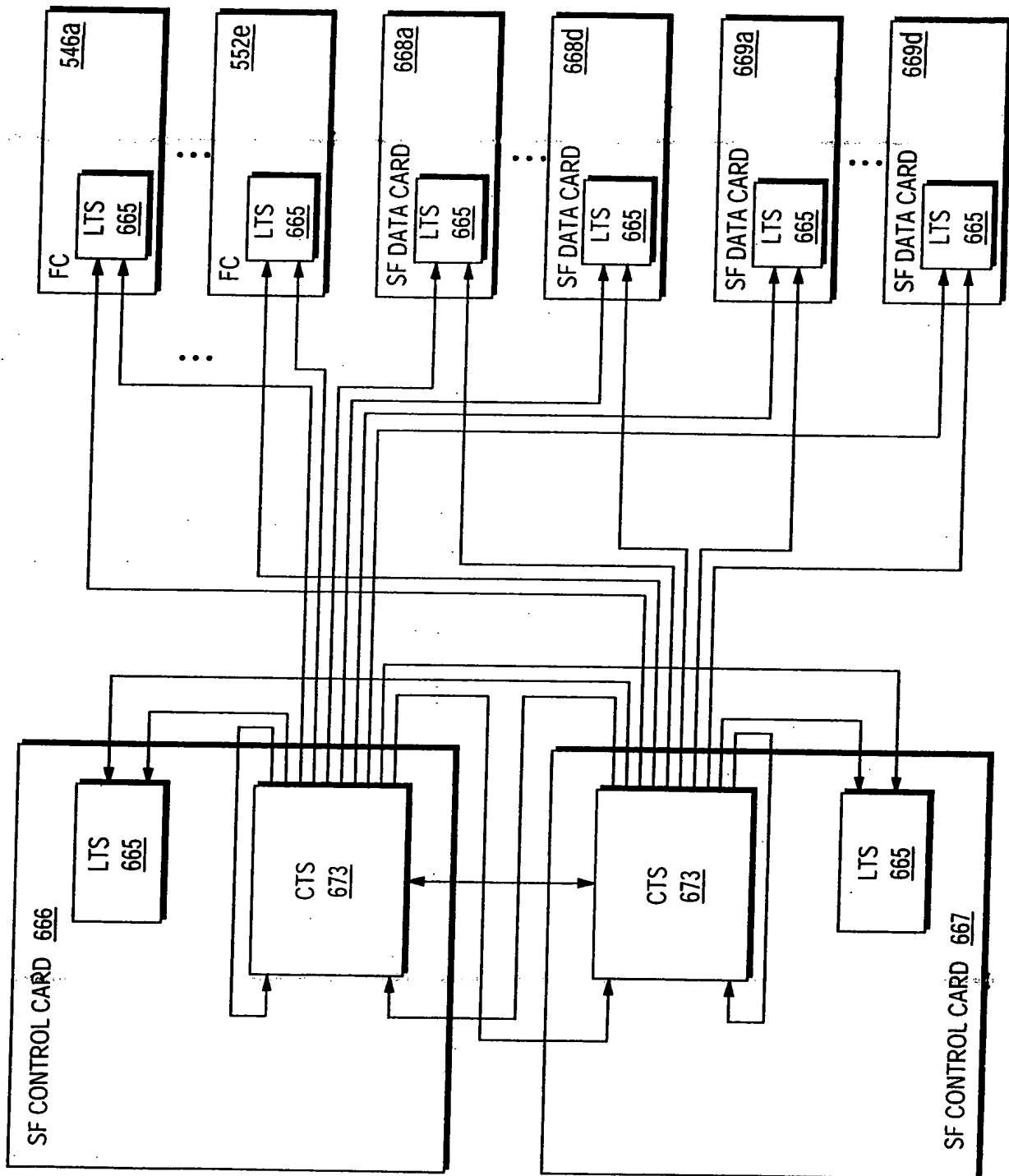


FIG. 44



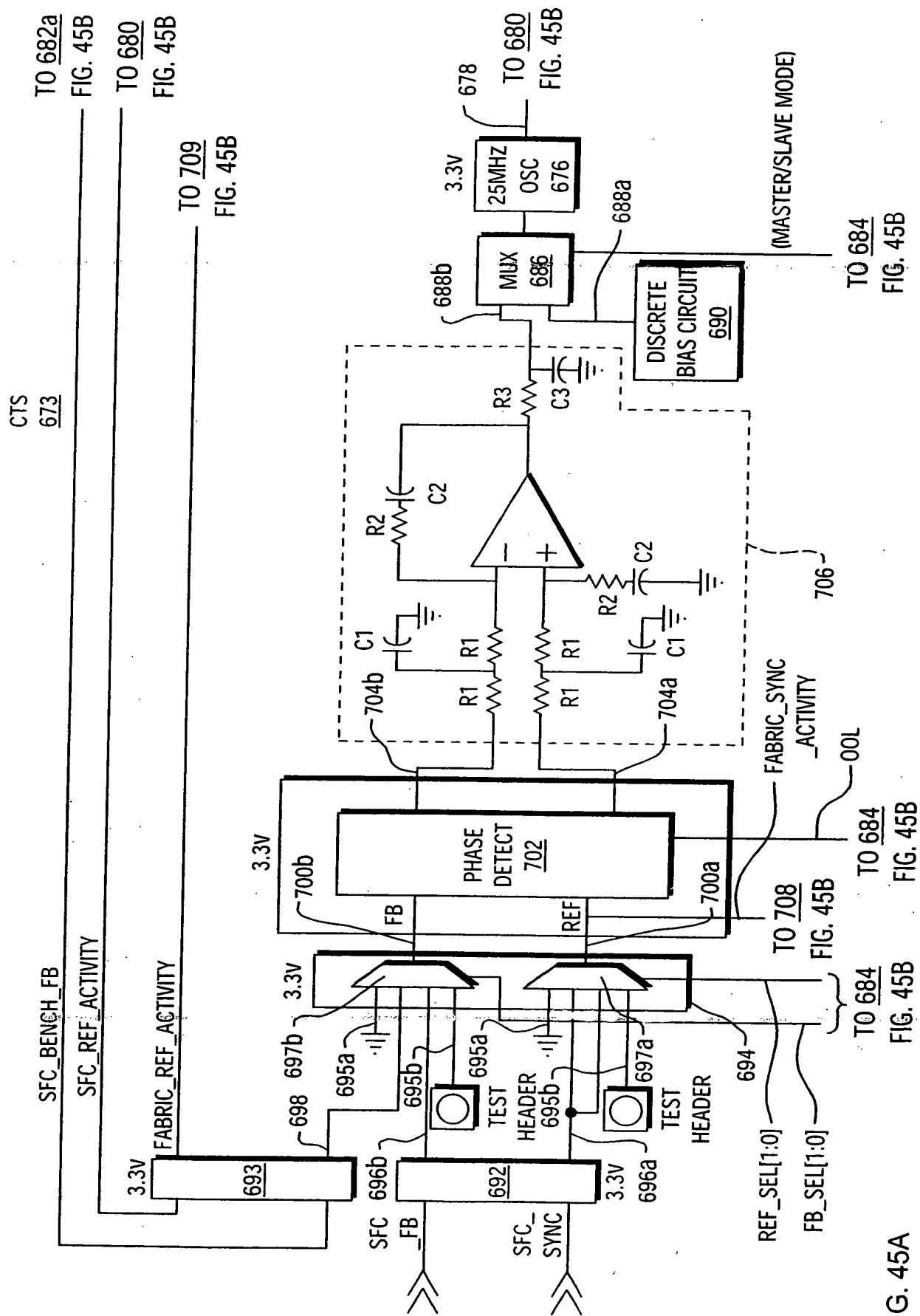


FIG. 45A

CTS  
673

FROM 686  
FIG. 45A

FROM 676  
FIG. 45A

FROM 693  
FIG. 45A

SFC\_REF  
BENCH\_FB

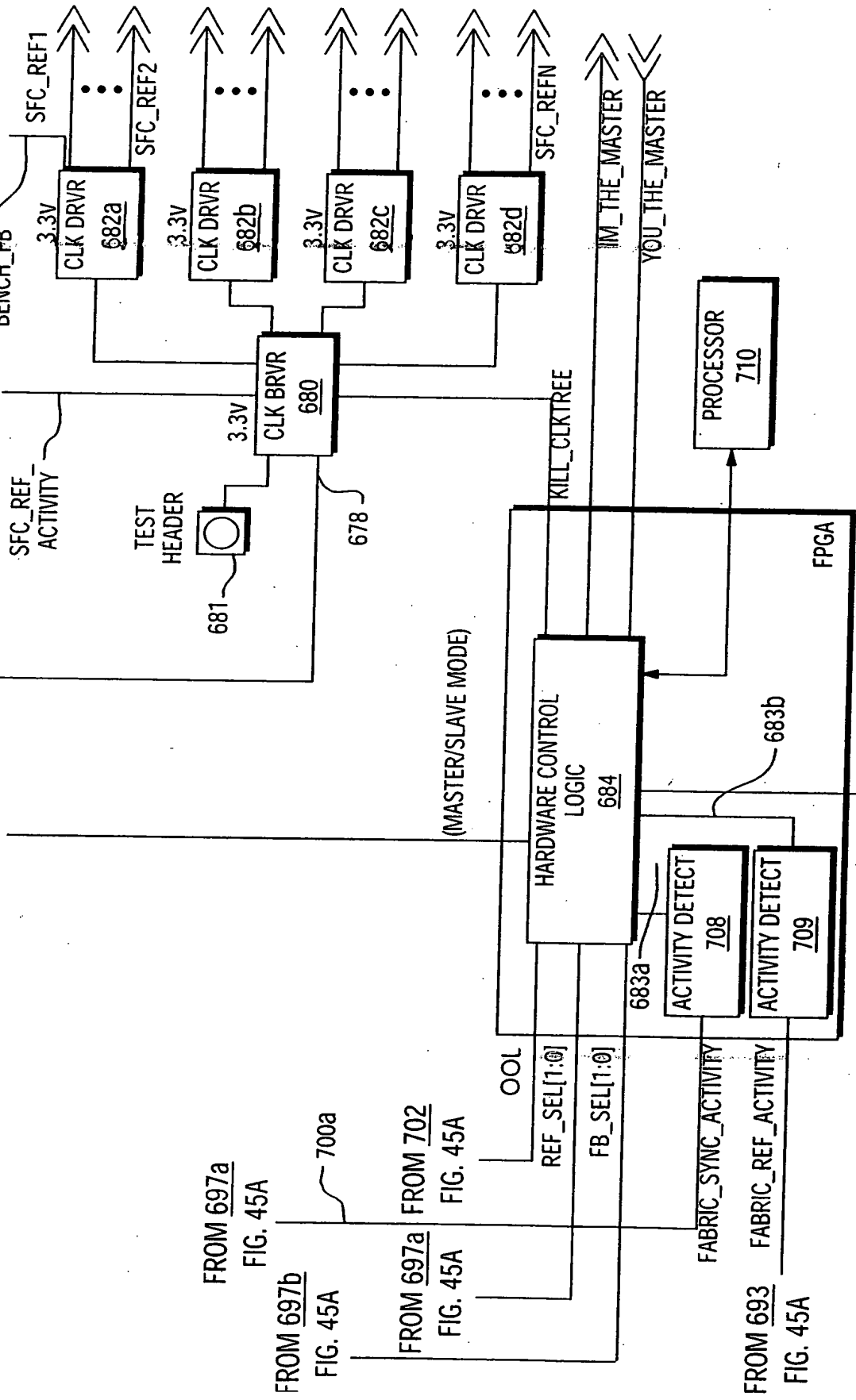


FIG. 45B

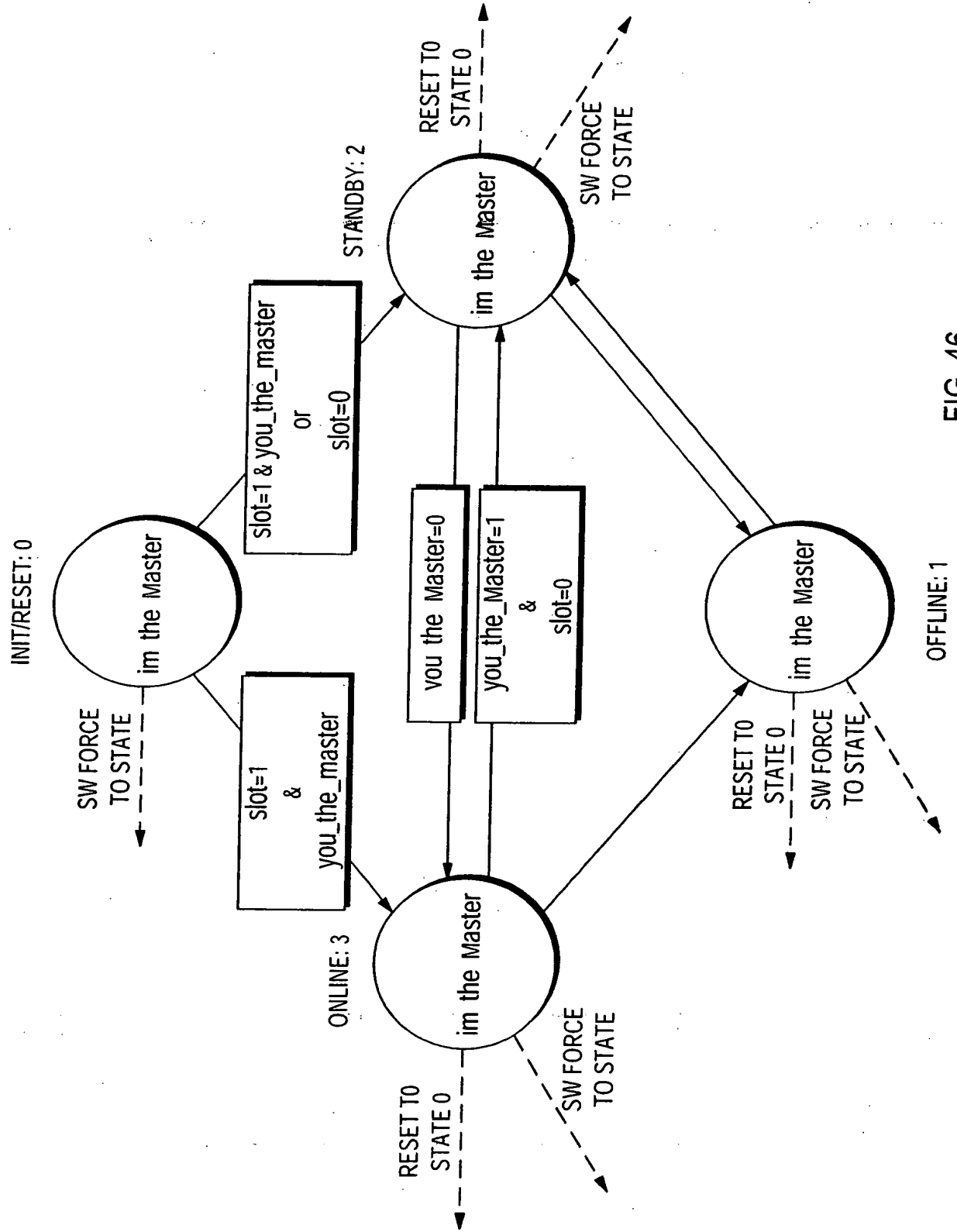


FIG. 46

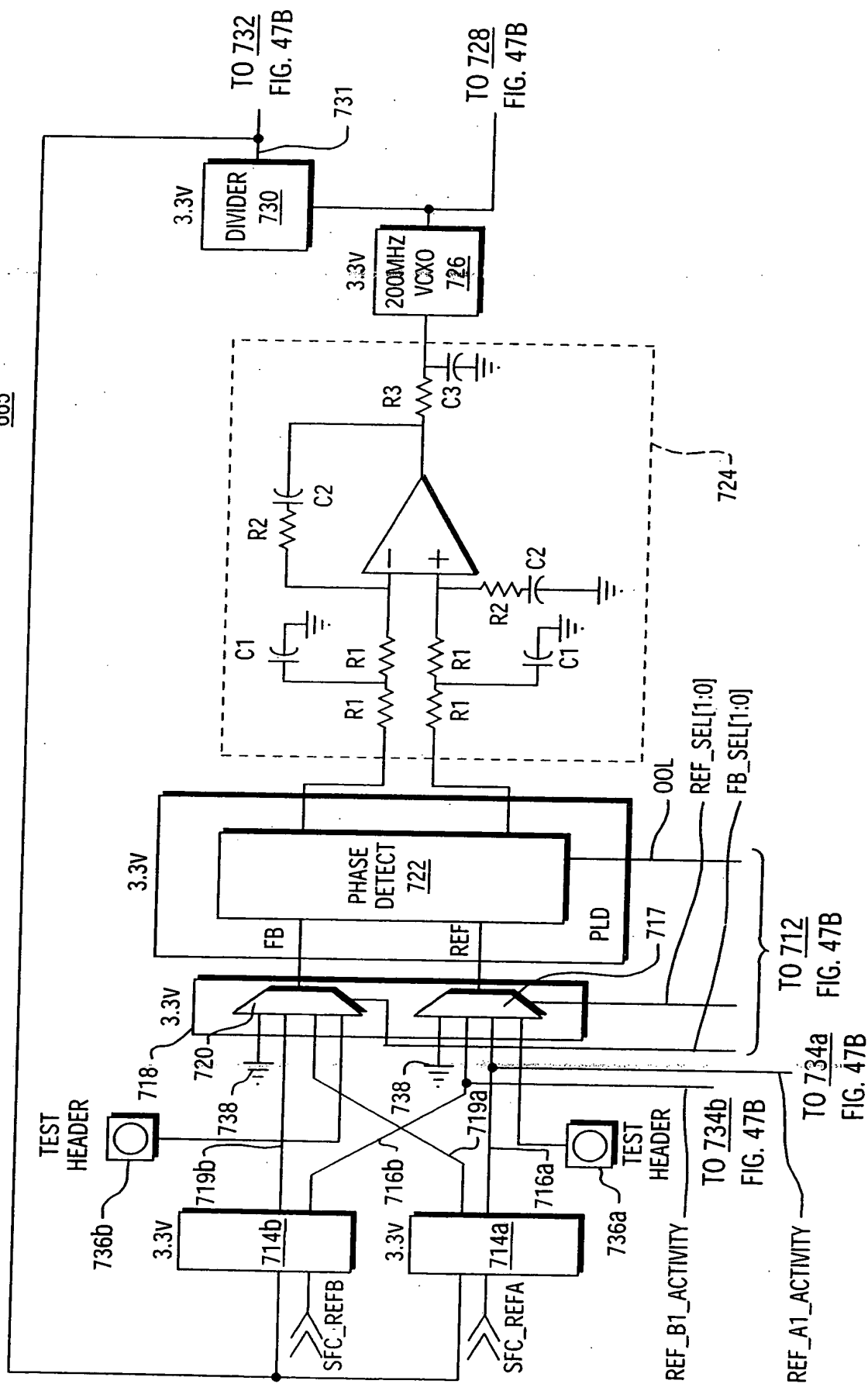


FIG. 47A

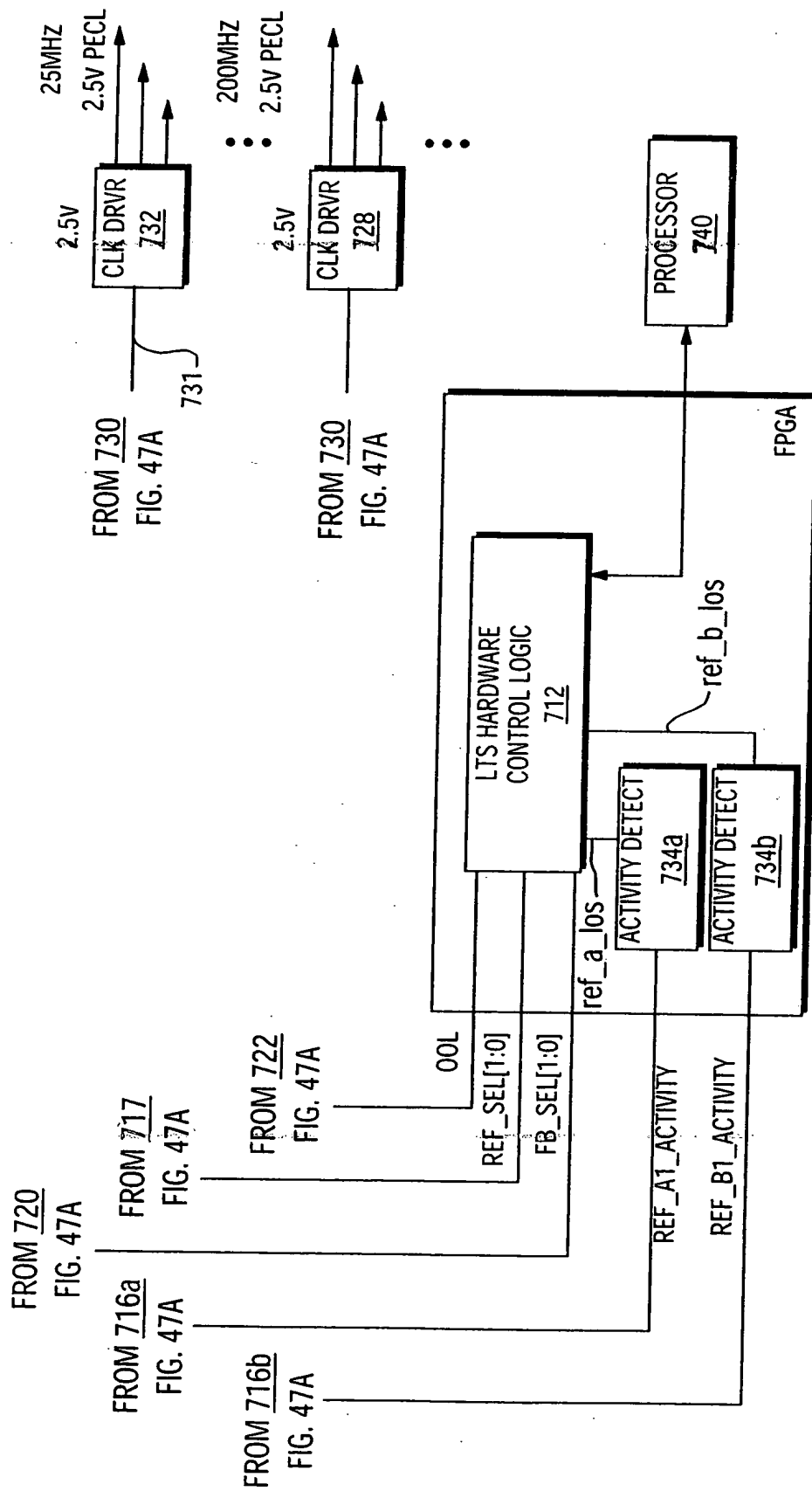


FIG. 47B

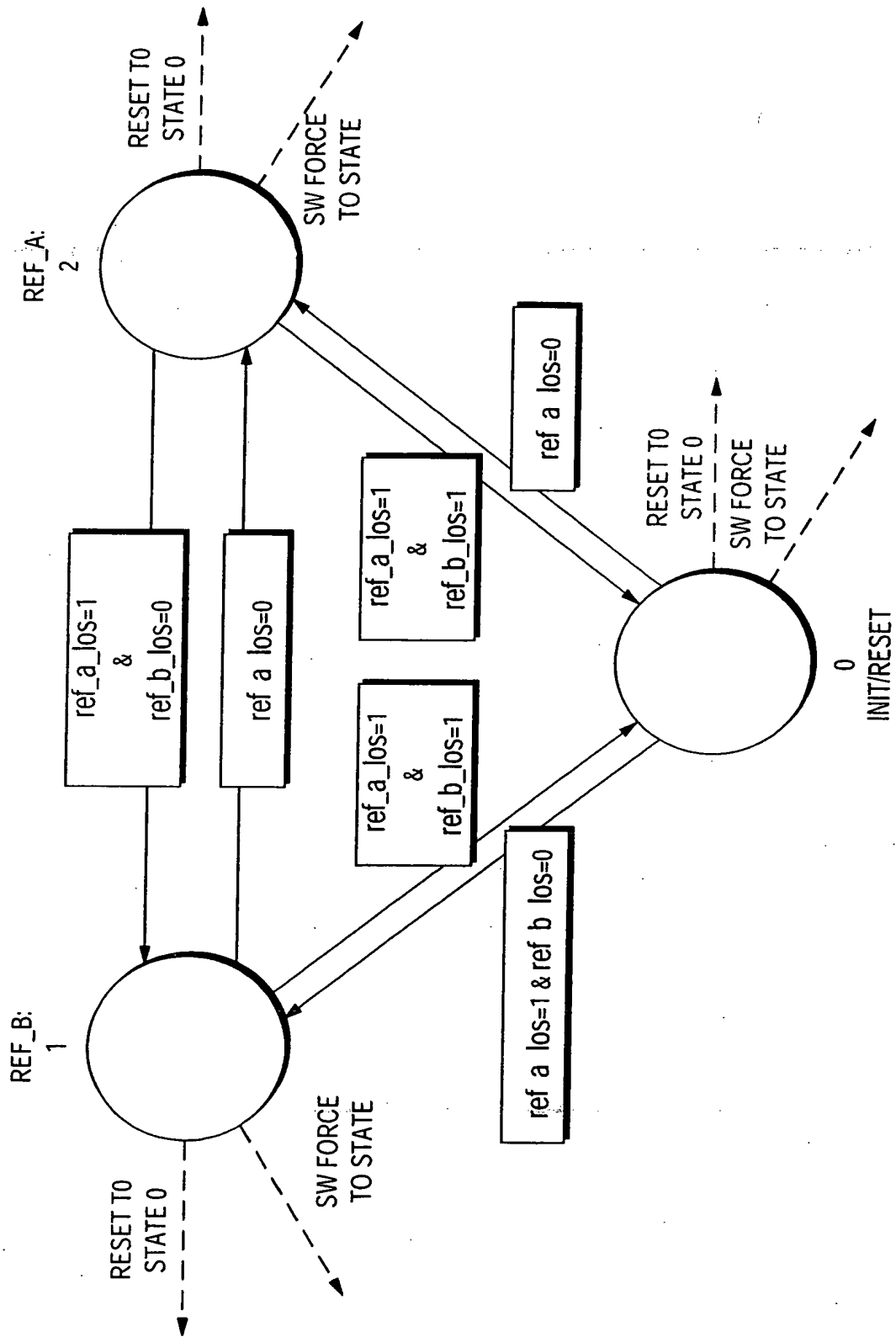
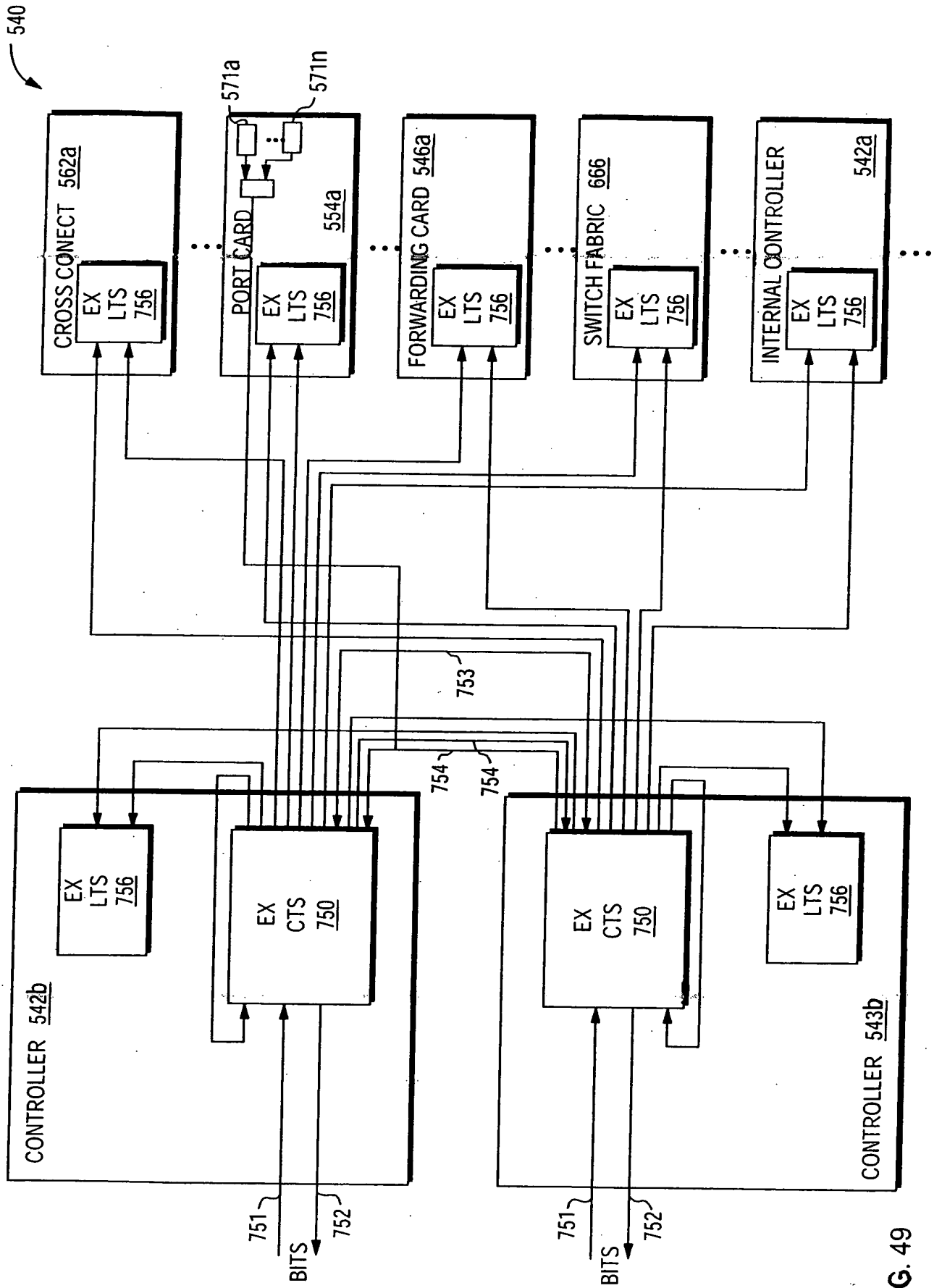


FIG. 48



**FIG. 49**

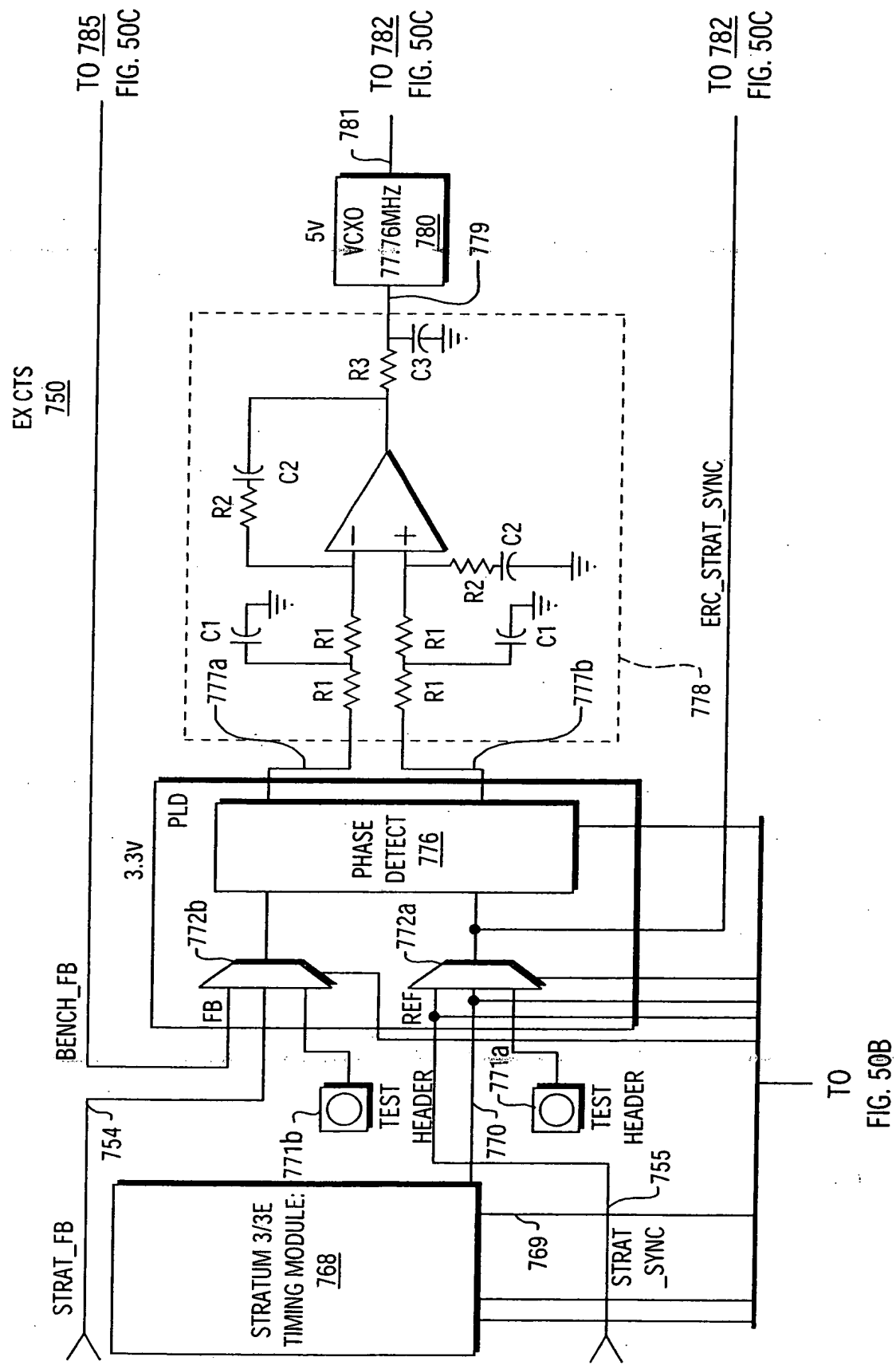


FIG. 50A



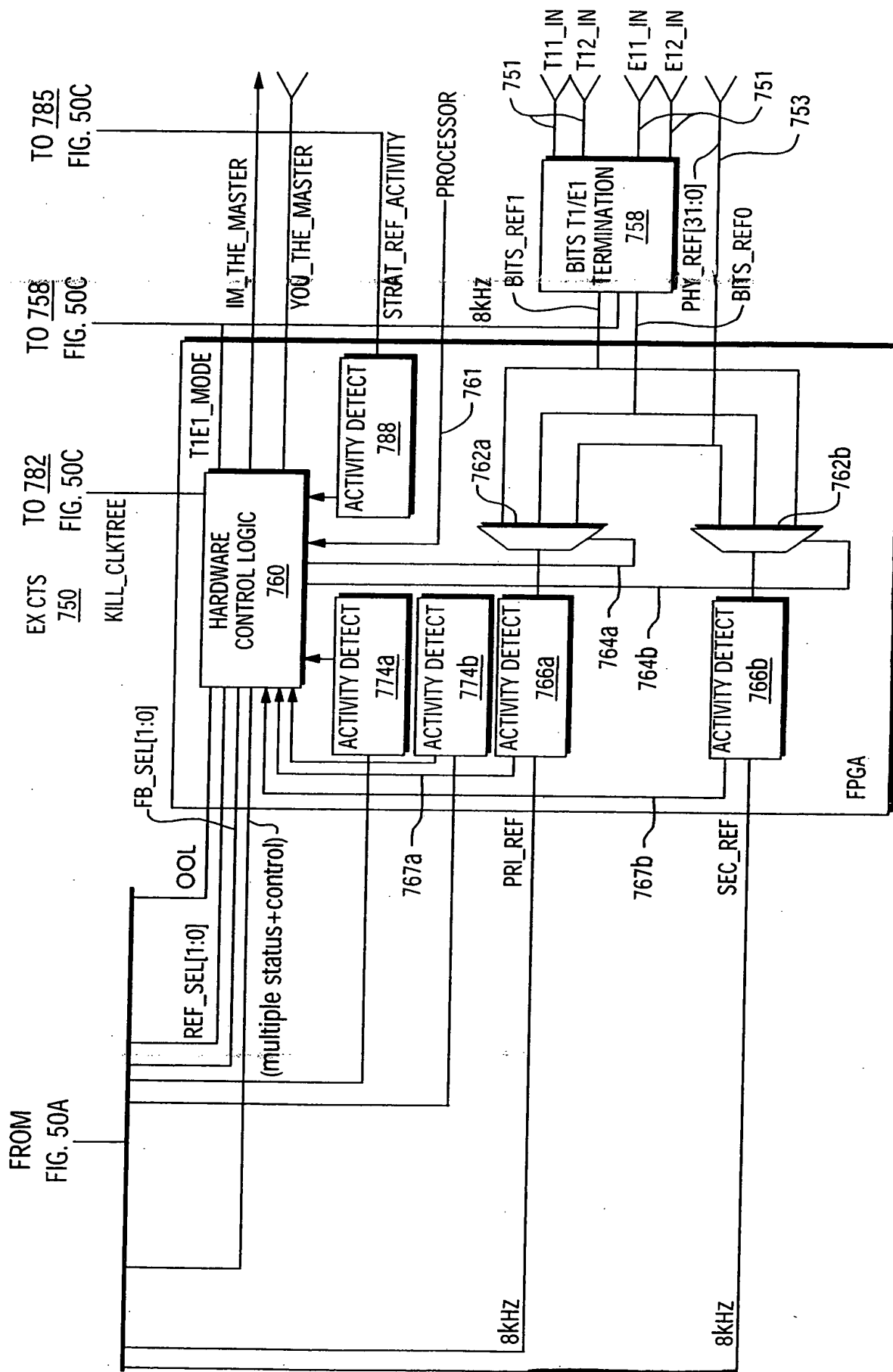


FIG. 50B

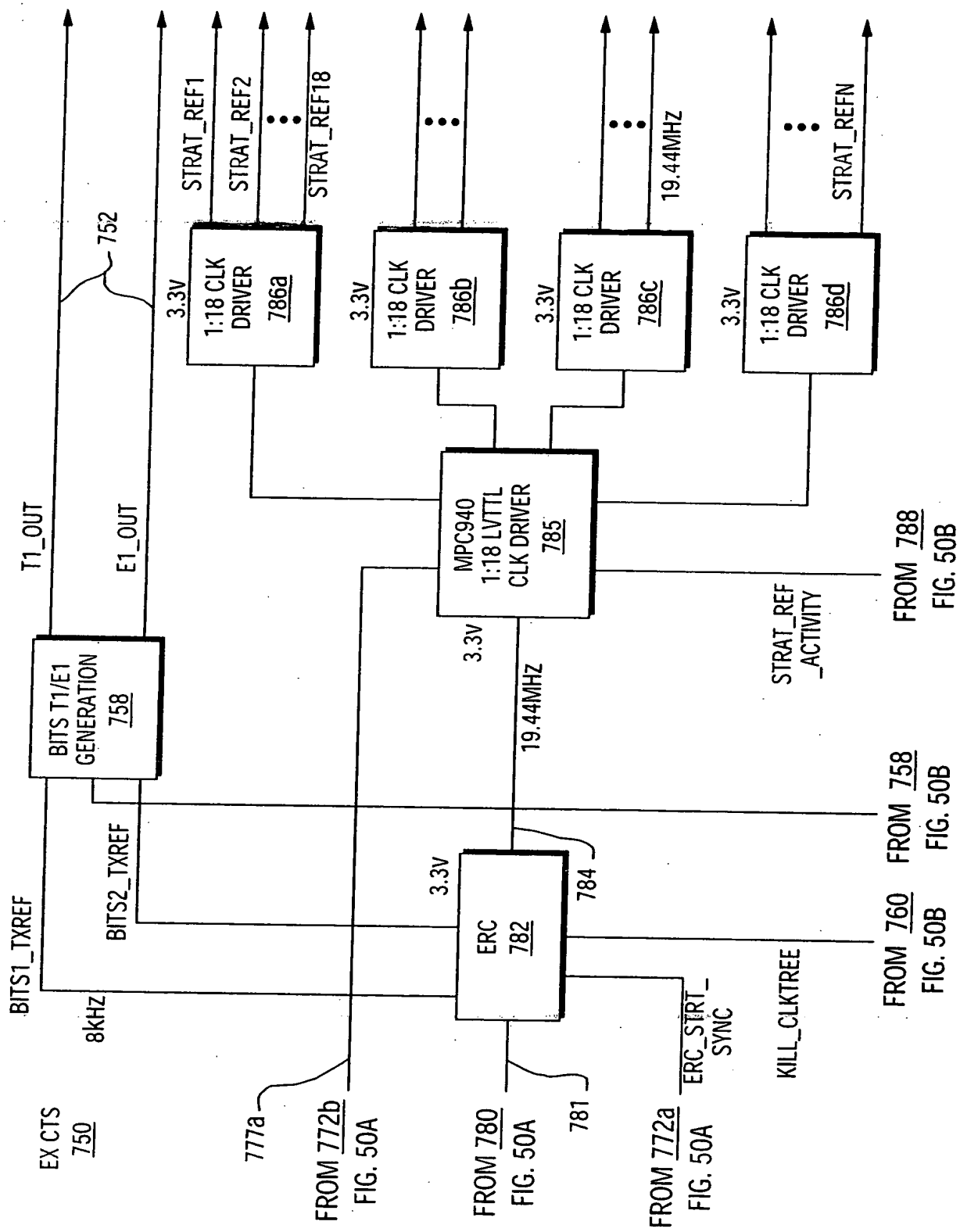


FIG. 50C

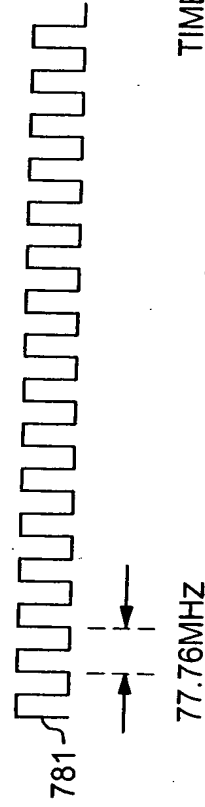
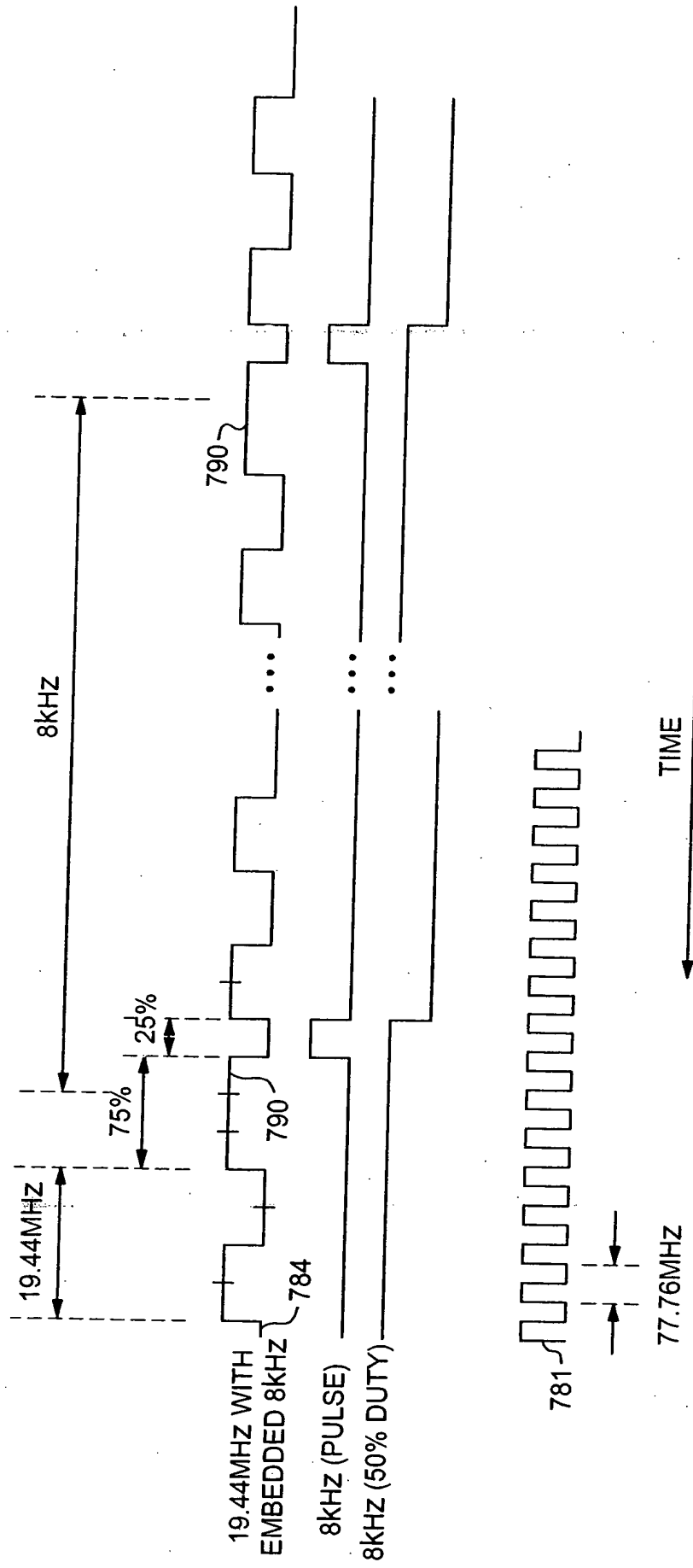


FIG. 51

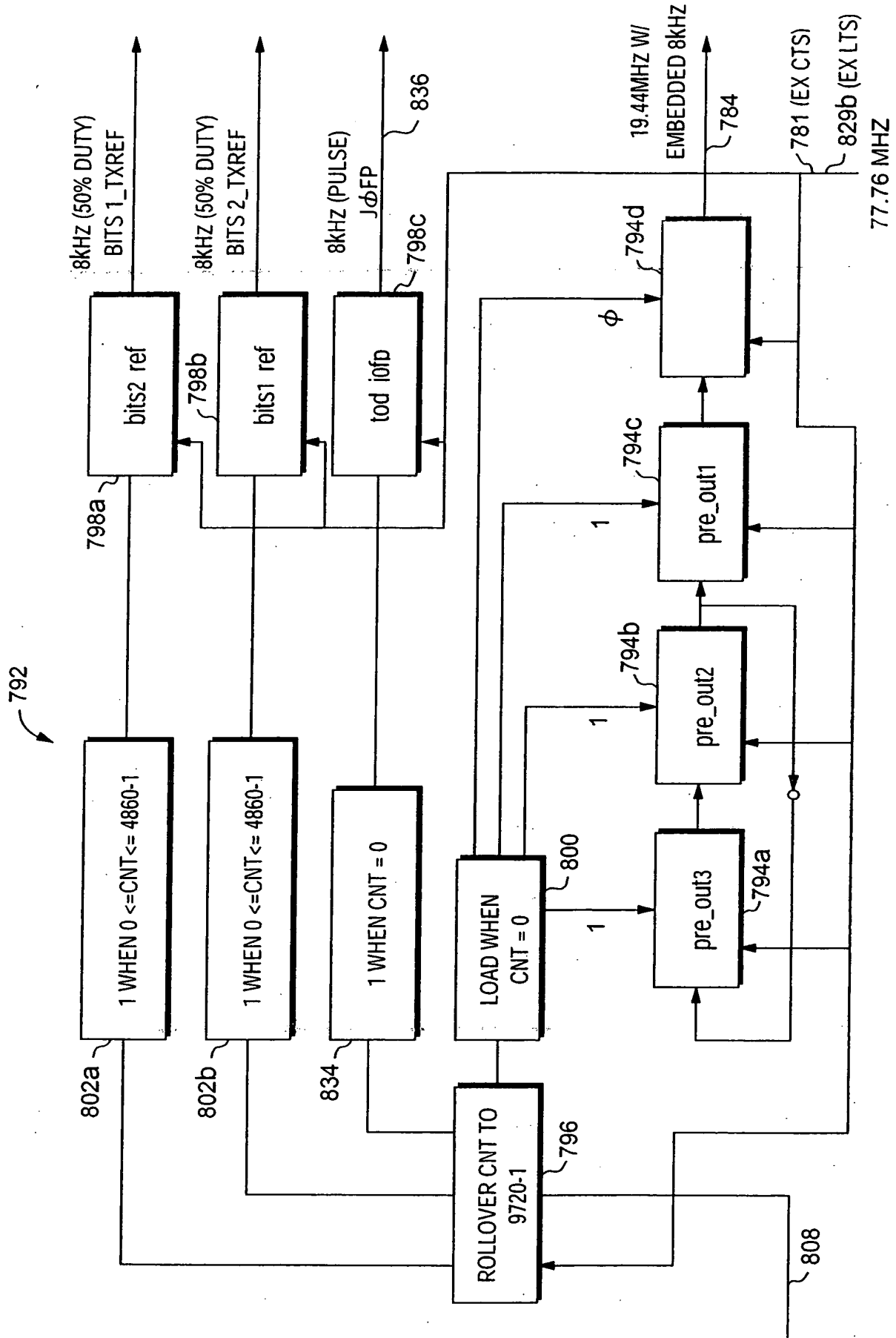


FIG. 52

EXTRACTOR  
804

ERC\_STRAT\_SYNC (EX CTS)  
STRAT\_REF\_A OR STRAT\_REF\_B (EX LTS) 832  
19.44MHz WITH ENCLOSED 8kHz  
(MUST BE PULLED LOW WHEN NOT PRESENT)

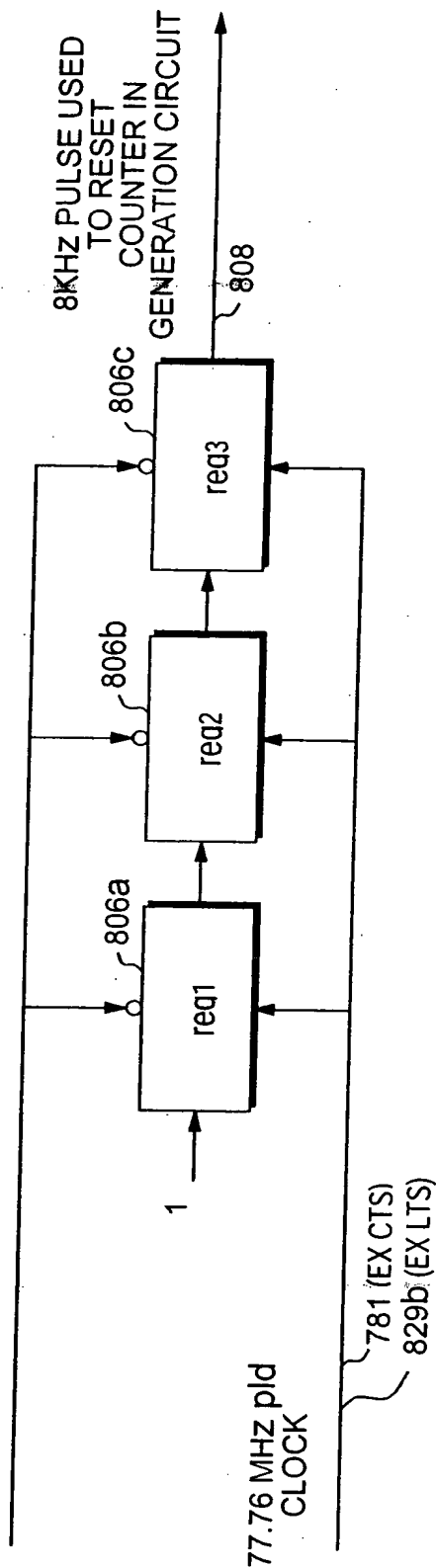


FIG. 53

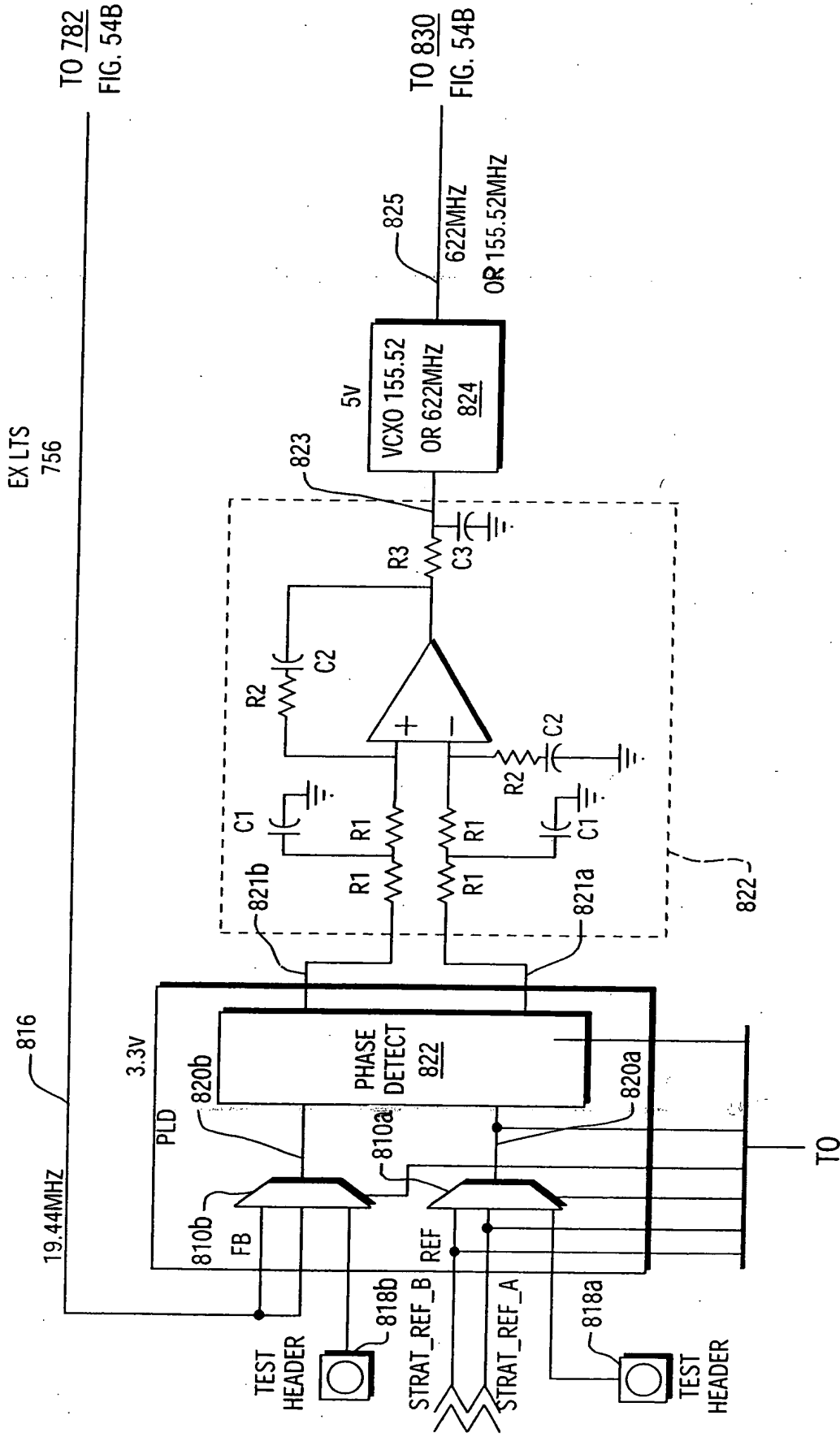


FIG. 54A

FIG. 54B

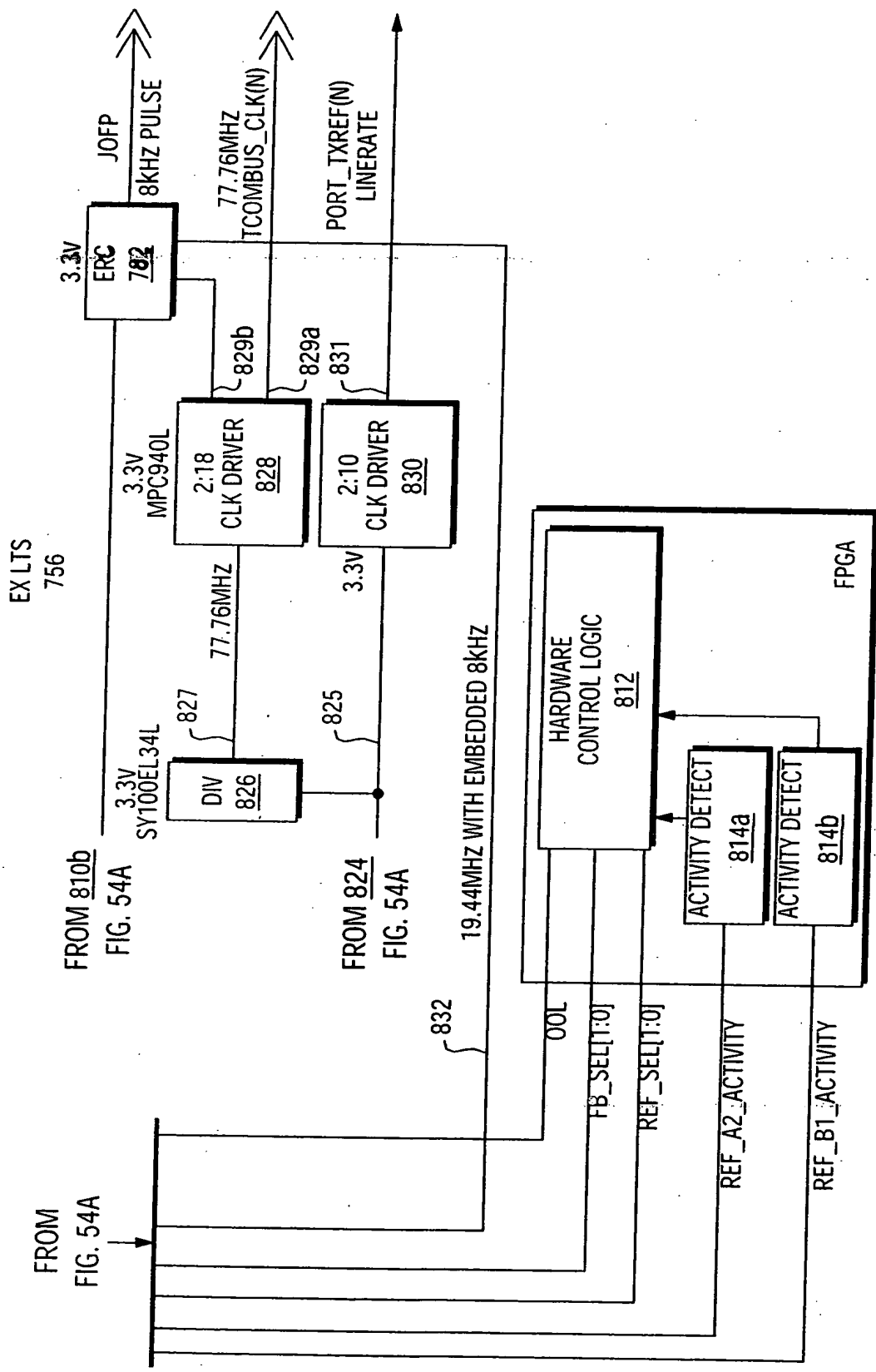
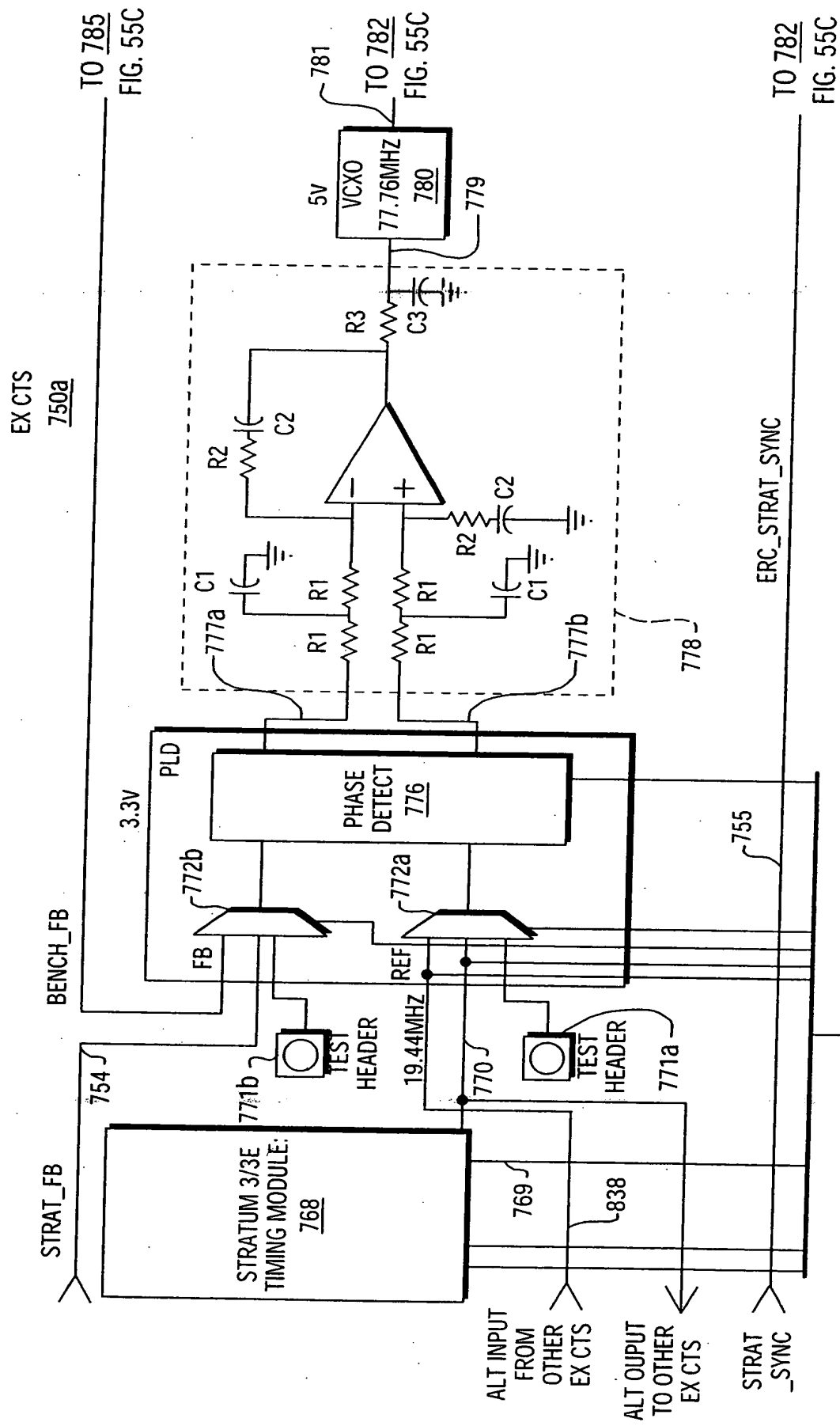


FIG. 54B



TO  
FIG. 55B

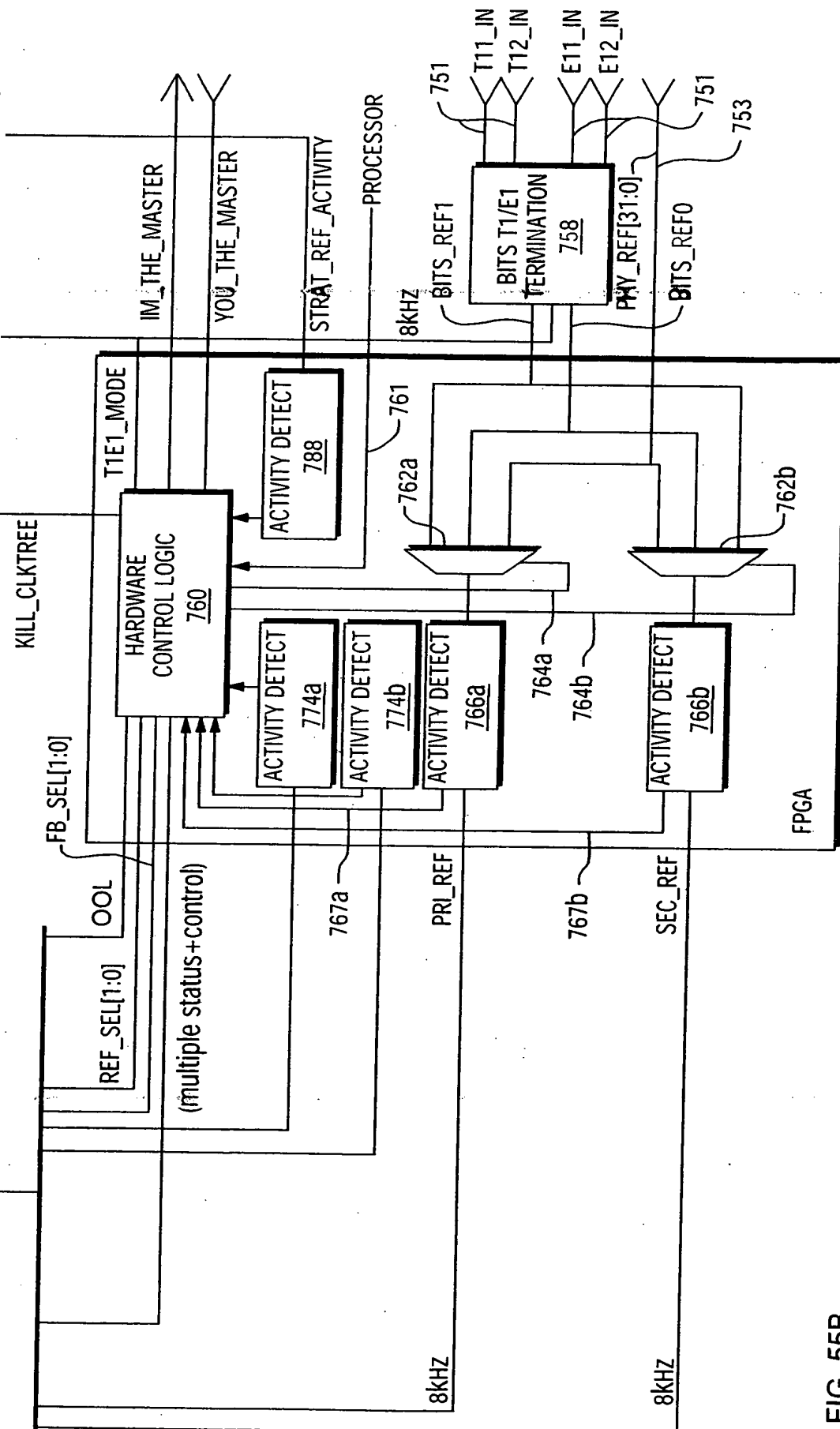
FIG. 55A



750a

T0 782  
FIG. 55C

**T0 785**  
**FIG. 55C**



**FIG. 55B**

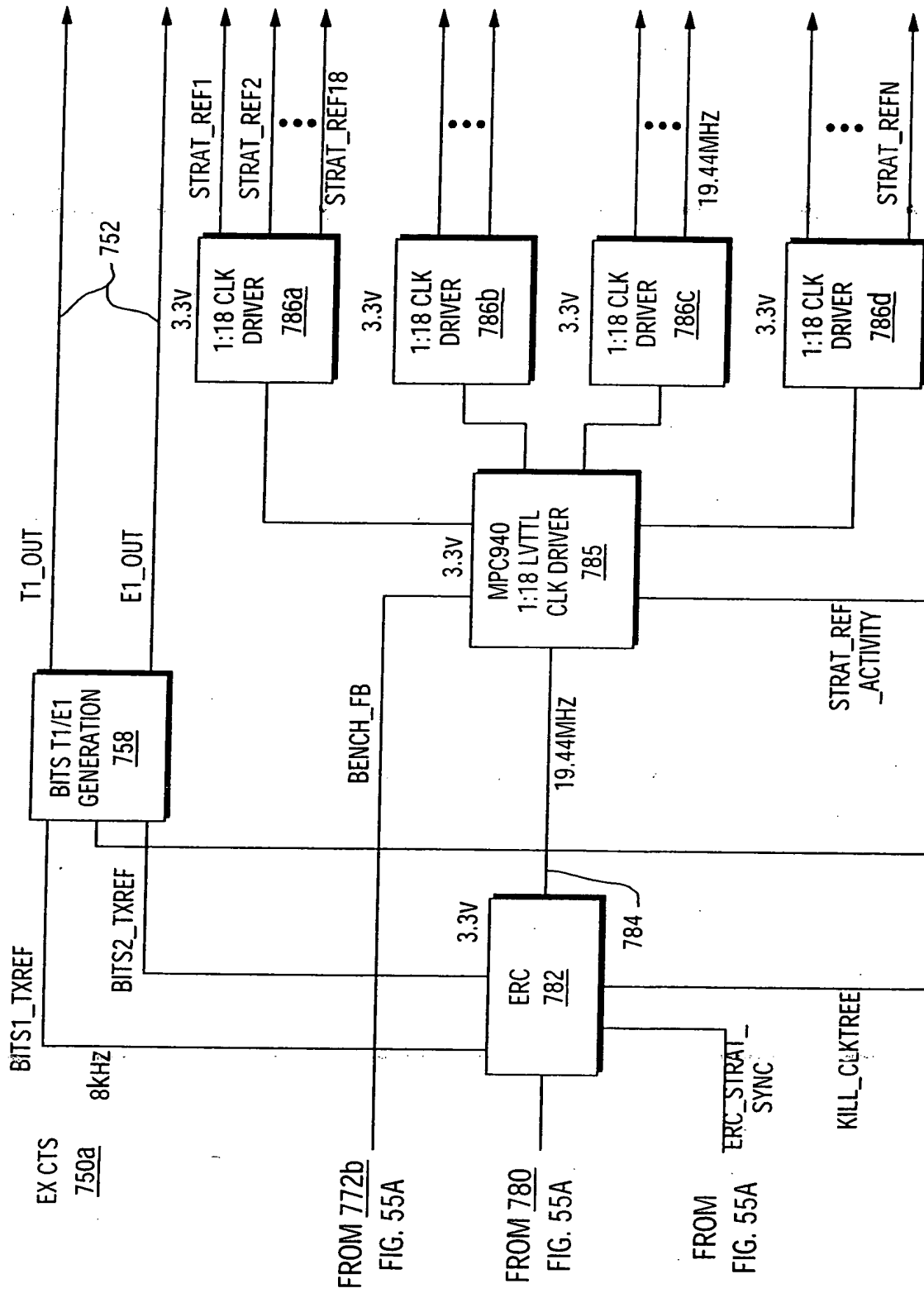


FIG. 55C

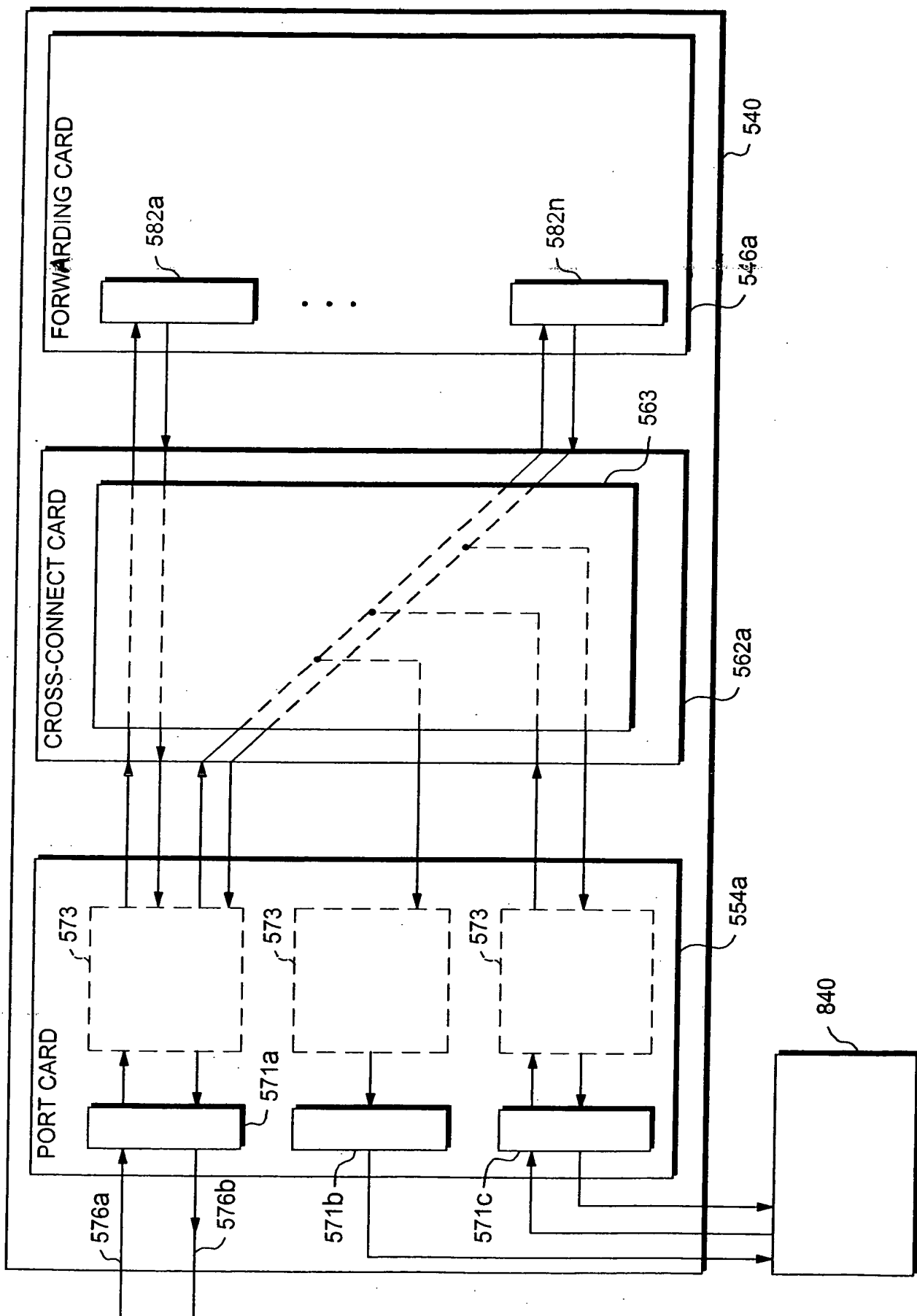


FIG. 56

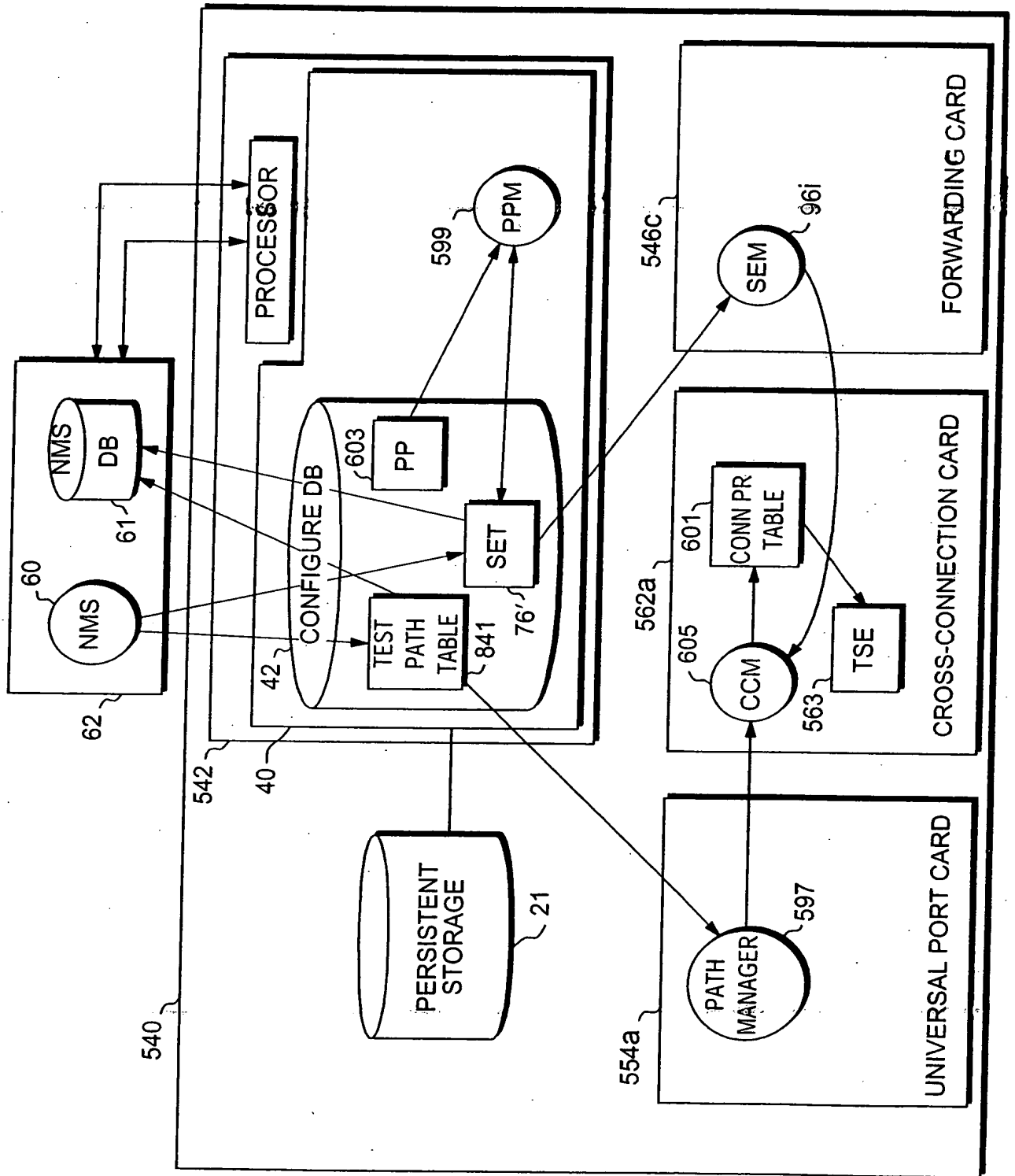


FIG. 57

TEST PATH TABLE 841

| 842  | 843  | 844 | PATH<br>LID | UP<br>PORT<br>LID | TIME<br>SLOT | # OF<br>TIME<br>SLOTS | 844     |  | 845 | ... |
|------|------|-----|-------------|-------------------|--------------|-----------------------|---------|--|-----|-----|
|      |      |     |             |                   |              |                       | MONITOR |  |     |     |
|      |      |     |             |                   |              |                       | INGRESS |  |     |     |
|      |      |     |             |                   |              |                       | EGRESS  |  |     |     |
| 1666 | 1232 | 4   | 3           | INGRESS           |              | NO                    |         |  |     |     |
| 1666 | 1233 | 4   | 3           | EGRESS            |              | NO                    |         |  |     |     |
| 1666 | 1233 | 4   | 3           | INGRESS           |              | YES                   |         |  |     |     |
| ⋮    | ⋮    | ⋮   | ⋮           |                   |              |                       |         |  | ⋮   |     |
| ⋮    | ⋮    | ⋮   | ⋮           |                   |              |                       |         |  | ⋮   |     |
| ⋮    | ⋮    | ⋮   | ⋮           |                   |              |                       |         |  | ⋮   |     |

FIG. 58

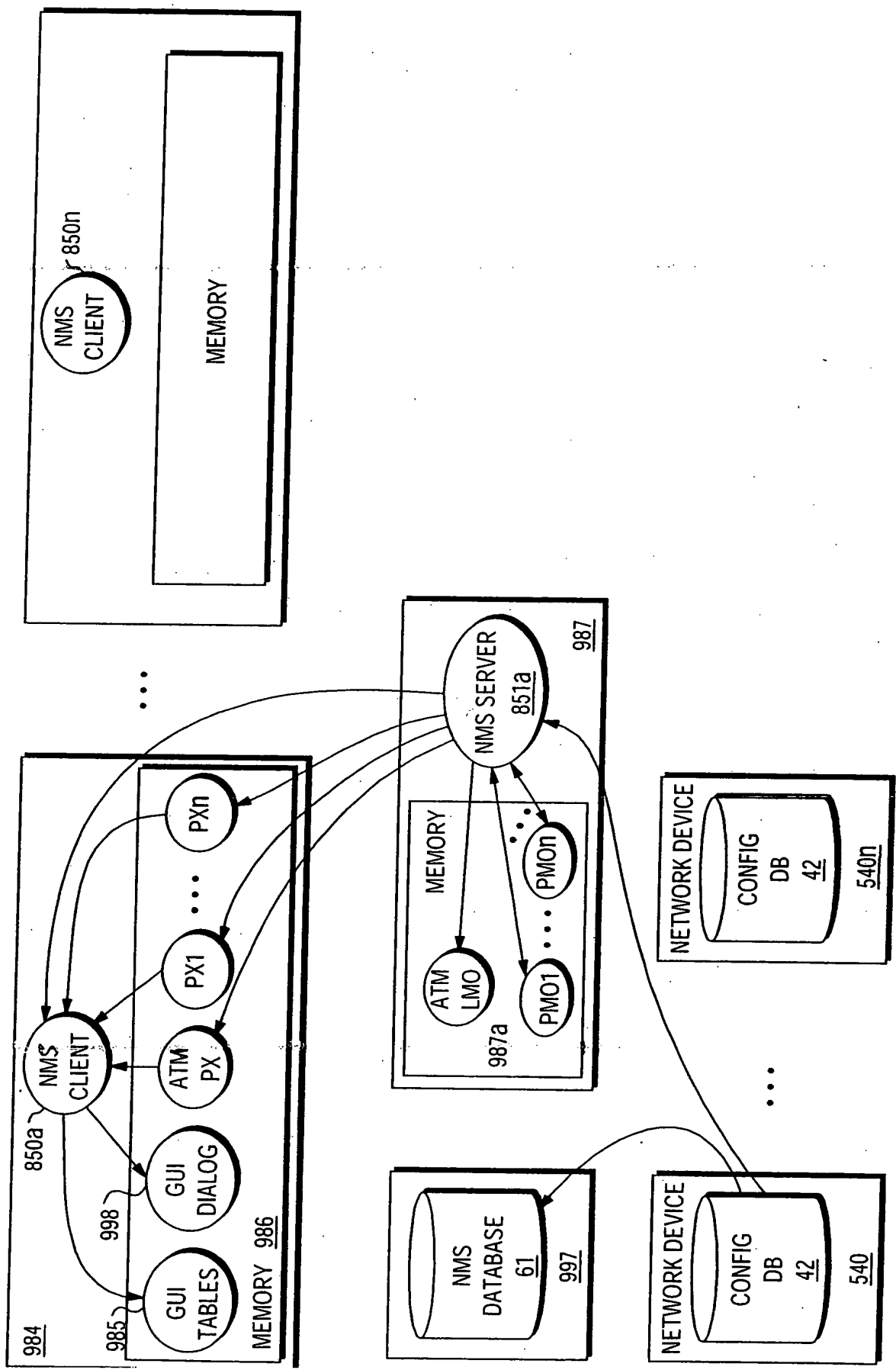


FIG. 59

MANAGED DEVICE TABLE 983

|      |     |    |     |    |      |
|------|-----|----|-----|----|------|
| 983b | PID | A1 | ... | An |      |
|      | 1   |    |     |    | 983a |

FIG 60A

CHASSIS TABLE 988

|      |     |    |     |    |                       |      |
|------|-----|----|-----|----|-----------------------|------|
| 988b | PID | A1 | ... | An | MANAGED<br>DEVICE PID | 988c |
|      | 1   |    |     |    | 1                     | 988a |
|      | ⋮   | ⋮  | ⋮   | ⋮  | ⋮                     |      |

FIG 60B

SHELF TABLE 989

|      |     |    |     |    |             |      |
|------|-----|----|-----|----|-------------|------|
| 989a | PID | A1 | ... | An | CHASSIS PID | 989b |
|      | 3   |    |     |    | 2           |      |
|      | 4   |    |     |    | 2           |      |
|      | ⋮   | ⋮  | ⋮   | ⋮  | ⋮           |      |
|      | 18  |    |     |    | 2           |      |

FIG 60C

SLOT TABLE 990

|      |     |    |     |    |           |      |
|------|-----|----|-----|----|-----------|------|
| 990a | PID | A1 | ... | An | SHELF PID | 990b |
| 990c | 20  |    |     |    | 3         |      |
|      | 21  |    |     |    | 3         |      |
|      | ⋮   | ⋮  | ⋮   | ⋮  | ⋮         |      |
| 990d | 116 |    |     |    | 18        |      |

FIG 60D

CARD TABLE 47'

| 47a | 47b |          |             |          |
|-----|-----|----------|-------------|----------|
|     | PID | CWD TYPE | VERSION NO. | SLOT PID |
|     | 120 | 0XF002   | 3           | 20       |
|     | 121 | 0XF002   | 4           | 21       |
|     | ⋮   | ⋮        | ⋮           | ⋮        |
|     | 124 | 0X6002   | 1           | 24       |
|     | ⋮   | ⋮        | ⋮           | ⋮        |
|     | 131 | 0XF002   | 1           | 31       |
|     | ⋮   | ⋮        | ⋮           | ⋮        |

FIG 60E

PORT TABLE 49'

| 49a | 49b |           |             |          |
|-----|-----|-----------|-------------|----------|
|     | PID | PORT TYPE | VERSION NO. | CARD PID |
|     | 300 | 00620     | 1           | 20       |
|     | 301 | 00620     | 1           | 20       |
|     | 302 | 00620     | 1           | 20       |
|     | 303 | 00620     | 1           | 20       |
|     | 304 | 00820     | 1           | 20       |
|     | ⋮   | ⋮         | ⋮           | ⋮        |
|     | 400 | 00620     | 1           | 39       |
|     | ⋮   | ⋮         | ⋮           | ⋮        |

FIG 60F



SONET PATH TABLE 600'

| 600a | 600b     |          |           |                 |     |
|------|----------|----------|-----------|-----------------|-----|
|      | PATH LID | PORT LID | TIME SLOT | # OF TIME SLOTS | ... |
|      | 901      | 304      | 4         | 3               |     |
|      | ⋮        | ⋮        | ⋮         | ⋮               | ⋮   |

FIG. 60G

SERVICE ENDPOINT TABLE 76''

| 76a | 76c    |     | 76d    |              | 76e          | 76b      |     |
|-----|--------|-----|--------|--------------|--------------|----------|-----|
|     | SE LID | Q # | FC PID | FC SLICE PID | FC TIME SLOT | PATH LID | ... |
|     | 3000   |     |        |              |              | 901      |     |
|     | ⋮      | ⋮   | ⋮      | ⋮            | ⋮            | ⋮        | ⋮   |

FIG. 60H

ATM IF TABLE 114''

| 114a | 114b       |               |        |     |
|------|------------|---------------|--------|-----|
|      | ATM IF LID | ATM GROUP LID | SE LID | ... |
|      | 5054       |               | 3000   | ... |
|      | ⋮          | ⋮             | ⋮      | ... |

FIG. 60I

| VIRTUAL ATM IF TABLE 993 |    |     |    |                 |
|--------------------------|----|-----|----|-----------------|
| 993a LID                 | A1 | ... | An | 993b ATM IF LID |
| 7489                     |    |     |    | 5054            |
| ⋮                        | ⋮  | ⋮   | ⋮  | ⋮               |

FIG 60J

| VIRTUAL CONNECTION TABLE 994 |    |     |    |                      |
|------------------------------|----|-----|----|----------------------|
| 994a LID                     | A1 | ... | An | 994b VIR. ATM IF LID |
| ⋮                            | ⋮  | ⋮   | ⋮  | ⋮                    |

FIG 60K

| VIRTUAL LINK TABLE 995 |    |     |    |                     |                       |
|------------------------|----|-----|----|---------------------|-----------------------|
| 995a LID               | A1 | ... | An | 995b VIR. CONN. LID | 995c CROSS. CONN. LID |
| ⋮                      | ⋮  | ⋮   | ⋮  | ⋮                   | ⋮                     |

FIG 60L

| CROSS-CONNECT TABLE 996 |    |     |    |                     |                     |
|-------------------------|----|-----|----|---------------------|---------------------|
| 996a LID                | A1 | ... | An | 996b VIR. LINK1 LID | 996c VIR. LINK2 LID |
| ⋮                       | ⋮  | ⋮   | ⋮  | ⋮                   | ⋮                   |

FIG 60M

| ATM NODE TABLE 999 |    |     |    |                         |
|--------------------|----|-----|----|-------------------------|
| 999a LID           | A1 | ... | An | 999b MANAGED DEVICE PID |
| 5000               |    |     |    | 999c 1                  |

FIG 60N

PHYSICAL MANAGED OBJECT 991

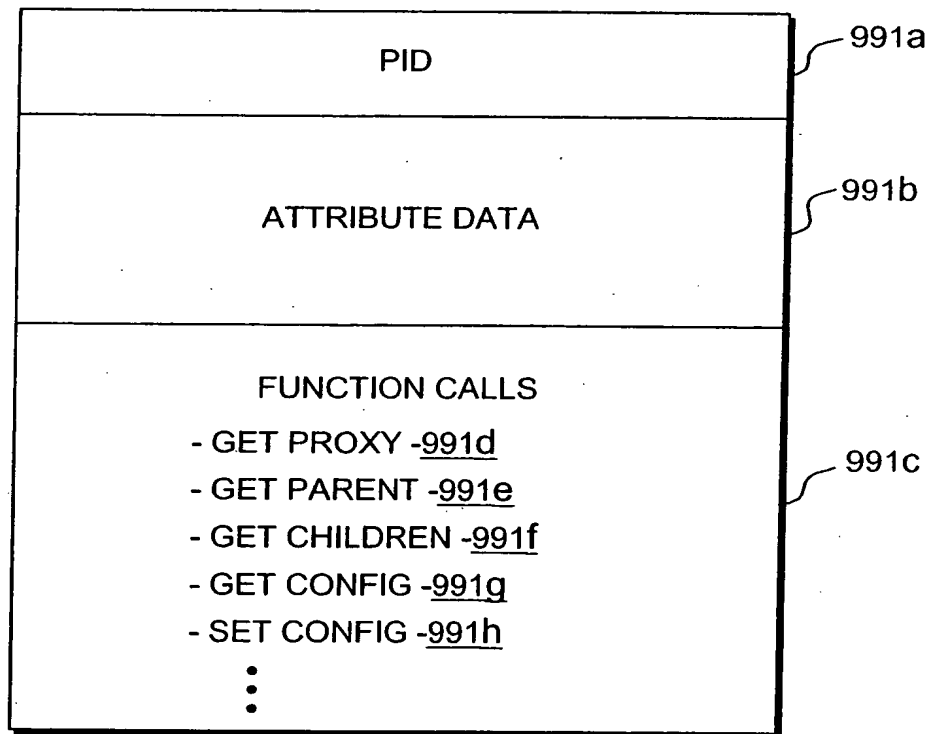


FIG. 61A

PROXY 992

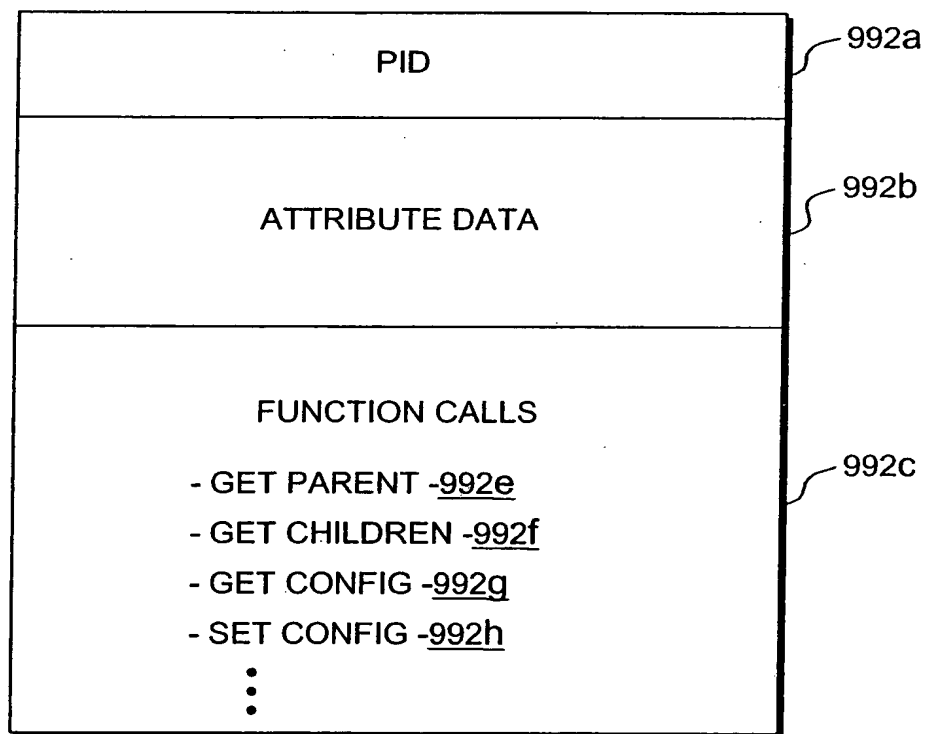


FIG. 61B

997

EvailNet Manager: Modify SONET Path - Shelf 11/Slot4/Port 1

System: 192.168.9.202

SONET Path Parameters

Path Name

Path1\_11/4/1

Path Number

1

Path Width

STS-3c

Path Type

Terminated-ATM

Connection Information

Connected SONET Path

Paths...

☒ None

☐ Specific

ATM Interface Name

Modules

OK

Cancel

998b 997a

FIG. 62